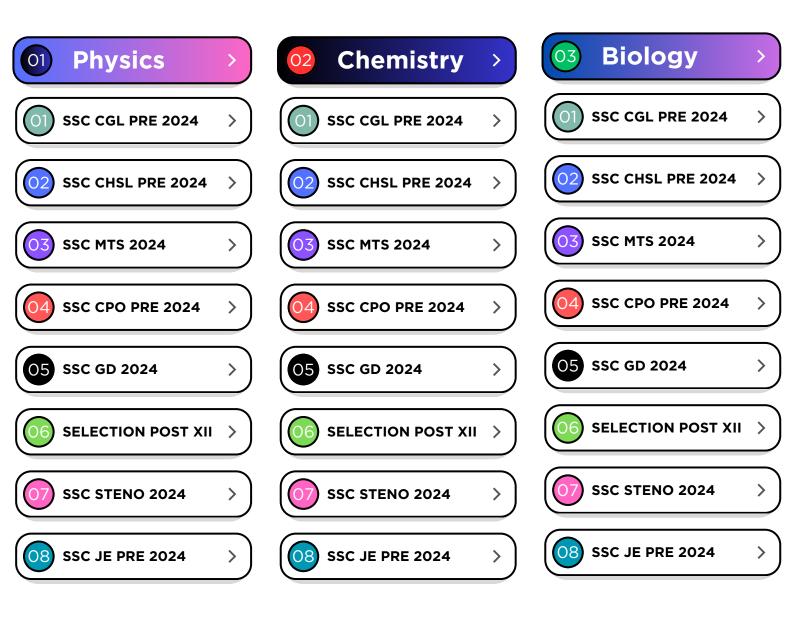


SSC 2024 COMPLETE SCIENCE PYQ'S E-BOOK 825+ Questions



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Gagan Pratap Maths	
Physics	
Combined Graduate Level Examination Tier I 2024	
Q1) What is the SI unit of current?	
A) Ohm B) Ampere C) Metre D) Volt	Correct Ans: B
Q2) What is the unit of measurement for optical power of the lens?	
A) Yotta B) Katal C) Radian D) Diopter	Correct Ans: D
Q3) What is the unit of specific resistance?	
A) Farad B) Ampere C) Coulomb D) Ohm meter	Correct Ans: D
Q4) Which famous experiment was done by Michael Faraday in 1831? A) Discovery of quantum magnetometers B) Discovery of law of elasticity C) Discovery of electromagnet	ic induction
D) Discovery of natural radioactivity	
	Correct Ans: C
Q5) Which of the following is NOT a unit of energy?	
A) Joule B) Calorie C) Newton D) Kilowatt hour	Correct Ans: C
Q6) Which of the following statements is NOT correct?	
A) Light year is the unit of distance. B) Light year is the distance travelled by light in one year.	
C) Light year is the unit of time. D) Angstrom is unit of length.	
	Correct Ans: C
Q7) What was the name of the wind measuring instrument invented for the first time in 1450?	
A) Transmissometer B) Dropsonde C) Anemometer D) Ceiling Projector	Correct Ans: C
Q8) Identify the INCORRECT pair regarding motion and their examples?	
A) Translatory motion – A ball falling from the cliff B) Periodic motion – Hands of a clock	
C) Oscillatory motion – Earth moving around the sun D) Rotatory motion – blades of a fan	
	Correct Ans: C
Q9) Which of the following two quantities have the same dimensions?	
A) Work and torque B) Power and moment of inertia C) Work and angular displacement	
D) Power and radius of circular motion	
	Correct Ans: A
Q10) What happens when two forces act in the opposite directions on an object?	
A) The net force acting on the object is the difference between the two objects.	
B) The net force acting on the object is the difference between the two forces.	
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C) The net force acting on the object is the total of the two forces.	
D) The net force acting on the object is the sum of the two objects.	
	Correct Ans: B
Q11) Name the phenomenon where an opaque object on the path of light becomes very small and wher tendency to bend around it and not walk in a straight line.	e light has a
A) Reflection of light B) Diffraction of light C) Angle of refraction D) Angle of incidence	Correct Ans: B
Q12) If a bar magnet is hung from a string, in which direction does its north pole point?	
A) West B) North C) East D) South	Correct Ans: B
Q13) A small object is placed on the focus on the left side of a convex lens. Where will be the image for	med?
A) At the centre on the right side of the lens. B) At infinity on the left side of the lens.	
C) At infinity on the right side of the lens. D) At the focus on the right side of the lens.	
	Correct Ans: C
Q14) In the Right-Hand Thumb Rule, the thumb is directed towards the direction of:	
A) current B) electric field C) motion of the conductor D) magnetic field	Correct Ans: A
Q15) In the context of vernier calliper, an internal jaw is used to measure:	
A) the length correct up to 1 mm B) the depth of a beaker C) the length of a rod and diameter of a sphere	
D) the internal diameter of a hollow cylinder and pipes	
	Correct Ans: D
Q16) Calorimeter is a small container made of a thin sheet ofwith good thermal conductivity	Ι.
A) silver B) platinum C) copper D) cesium	Correct Ans: C
Q17) An electric iron requires a fuse to prevent short circuiting.	
A) 4 A B) 3 A C) 2 A D) 5 A	Correct Ans: D
Q18) How long will a sound wave take to travel 1.5km, which has a frequency of 5 kHz and wavelength	of 6 cm?
A) 2.5 seconds B) 50 seconds C) 5 seconds D) 25 seconds	Correct Ans: C
CHSL Exam 2024 Tier I	
Q1) Which of the following is the correct relationship?	
A) $F = a/m$ B) $F = m/a$ C) $F = m^2 a$ D) $F = ma$	Correct Ans: D
Q2) Which is the nearest planet to the Sun?	
A) Uranus B) Jupiter C) Mercury D) Saturn	Correct Ans: C
Q3) Which of the following is NOT applicable to force?	
A) Force may change the shape of an object B) Force may change the direction of a moving object	
C) Force may increase the mass of the object D) Force may make an object move	
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Q4) Who was the first to use the term 'horsepower' that refers to the power produced by an engine? A) John Dalton B) Amedeo Avogadro C) Albert Einstein D) James Watt	Correct Ans: D
Q5) Which of the following statements is correct?	-l
A) Mars is the warmest planet. B) The size of Jupiter and Mars is similar. C) The size of Earth and Venus is a	almost similar.
D) The density of Saturn is similar to that of Earth.	
	Correct Ans: C
Q6) For which of the following discoveries in 1827 was the German physicist, Georg Simon Ohm best ki	nown?
A) For clarifying the mathematical relationship between electrical current, resistance and voltage	
B) For measuring the magnetic properties of nuclear particles	
C) For invention of the magnetometer, which is a device capable of measuring the direction and strength of a n	nagnetic field
 For developing a device capable of amplifying and modulating electromagnetic signals that could also funct oscillator 	ion as an
	Correct Ans: A
Q7) Which device is used to measure the current flow using needle deflection caused by a magnetic fiel upon a current-carrying wire?	d force acting
A) Galvanometer B) Psophometer C) Potentiometer D) Ammeter	Correct Ans: A
Q8) In an electrical circuit, the ammeter reading decreases to when the length of th doubled.	e wire is
A) one-sixth B) one-half C) one-fourth D) one-third	Correct Ans: B
Q9) Who proposed that 'Light is made up of waves propagating perpendicular to the direction of its mov	ement'?
A) Newton B) Huygens C) Kepler D) Pauli	Correct Ans: B
Q10) What is the wavelength range of visible light?	
A) 0.2 to 0.3 μm B) 0.7 to 0.9 μm C) 0.4 to 0.7 μm D) 1 to 2 μm	Correct Ans: C
Q11) Who among the following confirmed Maxwell's theories with the discovery of radio waves and also first person to transmit and receive controlled radio waves in 1886?	became the
A) Guglielmo Marconi B) William Hopkins C) Michael Faraday D) Heinrich Hertz	Correct Ans: D
Q12) A circular coil having 'n' turns produces a field times large as that produced by a	a single turn
A) 2n B) n C) 4n D) 3n	Correct Ans: B
Q13) If an object of mass 2 kg is dropped from a height of 10 metres, what will be the ratio of its potentia kinetic energy at the height of 5 metres (g=10m/sec ²)	al energy and
A) 1:1 B) 4:1 C) 1:4 D) 1:2	Correct Ans: A



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Q14) Who among the following discovered that a wire carrying electric current can attract or repel anoth it that's also carrying electric current?	er wire next to
A) Michael Faraday B) Andre-Marie Ampere C) Guglielmo Marconi D) James Maxwell	Correct Ans: B
Q15) Which of the following statements is INCORRECT regarding the Coriolis force?	
A) It is absent at the equator. B) Deflection is less when the wind is high.	
C) It deflects the wind to the right in the north and left in the south. D) It is directly proportional to the angle of a	altitude
	Correct Ans: B
Q16) Who calculated the approximate location of the planet Neptune by studying gravity-induced disturb motion of Uranus?	pances in the
A) John Couch Adams B) Johann Gottfried Galle C) Urbain-Jean-Joseph Le Verrier D) Percival Lowell	Correct Ans: C
Q17) In which year did Galileo describe the regular, swinging motion of a pendulum by the action of grav acquired momentum?	vity and
A) 1605 B) 1600 C) 1599 D) 1602	Correct Ans: D
Q18) In 1835, who developed the process of applying a thin layer of metallic silver to one side of a clear and created the first mirror?	glass pane
A) CV Raman B) Victor Francis Hess C) CH Townes D) Justus von Liebig	Correct Ans: D
Q19) In which year did Eric A. Cornell, Wolfgang Ketterle and Carl E. Wieman receive the Nobel Prize ir the achieving 'Bose-Einstein condensation in dilute gases of alkali atoms'?	Physics for
A) 2002 B) 2000 C) 2001 D) 2003	Correct Ans: C
Q20) Which type of electromagnetic radiation was discovered by Johann Wilhelm Ritter in 1801?	
A) X-rays B) Ultraviolet rays C) Infrared rays D) Gamma rays	Correct Ans: B
Q21) Identify the INCORRECT pair regarding the material media and their refractive index?	
A) Sapphire – 1.77 B) Kerosene – 1.44 C) Ruby – 1.71 D) Benzene – 2.42	Correct Ans: D
Q22) In which year did Hans Christian Oersted discover that a compass needle gets deflected when an passes through a metallic wire placed nearby?	electric current
A) 1826 B) 1824 C) 1820 D) 1822	Correct Ans: C
MTS Non Tech Havaldar CBIC and CBN Examination 2024	
Q1) Find the acceleration (in m/s ²) of a body which accelerates from 5 m/s to 10 m/s in 2 seco	nds.
A) 7.5 m/sec ² B) 5 m/sec ² C) 10 m/sec ² D) 2.5 m/sec ²	Correct Ans: D
Q2) The average separation between the sun and the earth in terms of light years is 8.311 minutes. Here indicate:	e, minutes
A) time B) distance C) velocity D) speed	Correct Ans: B
Q3) What is the frequency (f) of a wave with a period of 0.04 seconds?	
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A) 25 Hz B) 40 Hz C) 100 Hz D) 50 Hz	Correct Ans: A
Q4) If four resistances of 4 ohm each are connected in parallel, what will be their effective resistance? A) 4 ohm B) 10 ohm C) 1 ohm D) 16 ohm	Correct Ans: C
 Q5) Calculate the Body Mass Index (BMI) of a person whose weight is 50 kg and height is 1.5 m. A) 22.2 kg/m² B) 25.0 kg/m² C) 16.6 kg/m² D) 18.0 kg/m² 	Correct Ans: A
Q6) Which of the following options has all vector quantities? A) Force, Velocity, Momentum, Energy and Power B) Force, Velocity, Momentum, Weight and Acceleration	
C) Force, Velocity, Momentum, Energy and Acceleration D) Power, Momentum, Energy, Speed and Work	
	Correct Ans: B
Q7) At 1 bar pressure, the volume of a fixed amount of hydrogen gas is 2.27 litre. What will be the volum pressure is kept at 0.2 bar?	me if the
A) 11.35 cm ³ B) 12250 cm ³ C) 11350 cm ³ D) 10270 cm ³	Correct Ans: C
 Q8) Why will a person weigh more at the north or south pole? A) Due to variation in centripetal force of earth with latitude B) Due to variation in centrifugal force of earth with C) Due to Earth's distance from the sun D) Due to variation in centripetal force of earth with altitude 	th latitude
	Correct Ans: B
Q9) Four resistors of equal resistance R each are connected in various possible ways both in series and/or parallel to get different combined resistances. Which of the following values of resistance cannot be achieved by using all th four resistors?	
A) 2 R B) 1.33 R C) 0.25 R D) 2.5 R	Correct Ans: A
Q10) In a metro station, it was observed that on an average 20 people per minute were using the escalator to reach a a height of 15 metres. Calculate the power of the escalator assuming the average mass of people to be 50 kg ar acceleration due to gravity to be 10 m/s ² .	
A) 15 kW B) 150 kW C) 1.25 kW D) 2.5 kW	Correct Ans: D
Q11) When a sailor jumps out of a rowing boat, the boat moves backwards. This represents:	
A) the Third law of motion B) rectilinear motion C) the First law of motion D) the Second law of motion	Correct Ans: C
Q12) Two masses of 1 kg and 2 kg were dropped from a height of 3.2 metres. Their respective velocitie touching the ground will be:	es just before
(Assume acceleration due to gravity g = 10 m/s ²) A) 4 m/s and 8 m/s B) 8 m/s and 4 m/s C) 8 m/s for both D) 3.2 m/s for both	Correct Ans: C
SSC CPO PAPER-1 2024	
Q1) Which of the following forces can only be applied when in contact with an object? A) Frictional force B) Gravitational force C) Electrostatic force D) Magnetic force	Correct Ans: A
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Q2) Who discovered a principle that states that the buoyant force on an object is equal to the weight of t displaced by the object?	he fluid
A) Isaac Newton B) Niels Bohr C) Archimedes D) Galileo Galilei	Correct Ans: C
 Q3) Which of the following statement/statements is/are true regarding the light year? 1.Light year is a unit of distance. 2.Light is a unit of time. 3.A light year is the distance that light travels in one Earth year. 4.Light year is the measurement of light intensity. 	
A) Only 1 is correct B) Only 1 and 3 are correct C) Only 2 is correct D) Only 1 and 2 are correct	Correct Ans: B
Q4) Identify the device used to change the resistance in an electric circuit.	
A) Ammeter B) Rheostat C) Conductor D) Voltmeter	Correct Ans: B
Q5) Which of the following is used for determining the value of 1 ampere.	
A) $A=1C/s$ B) $C=A/2s$ C) $A=2C/s$ D) $C=A\times 2s$	Correct Ans: A
Q6) Which of the following pairs of physicists and their contributions/discoveries is INCORRECT?	
A) Galileo Galilei – Wave theory of light B) Michael Faraday – Laws of electromagnetic induction	
C) Heinrich Rudolf Hertz – Generation of electromagnetic waves D) Albert Einstein – Explanation of photoelectromagnetic waves	ctric effect
	Correct Ans: A
Q7) is commonly represented by the Greek letter ρ (rho).	
A) Electrical resistivity B) Current C) Flow of charges D) Electrical conductivity	Correct Ans: A
Q8) Which of the following is NOT an example of inertia at rest?	
A) Falling down backward when a vehicle starts immediately B) Falling down of dust particle while dusting a c	loth
C) The detachment of leaves/fruits due to shaking D) The sudden application of brakes in a vehicle	
	Correct Ans: D
Q9) What kind of energy does a yo-yo have before it is released?	
A) Potential energy B) Light energy C) Chemical energy D) Kinetic energy	Correct Ans: A
Q10) Who among the following physicists invented the voltaic pile, the forerunner of the modern battery,	in 1800?
A) Andre-Marie Ampere B) George Simon C) Alessandro Volta D) Hans Christian Oersted	Correct Ans: C
Q11) Which wave oscillates parallel to the motion of the sound wave?	
A) Mechanical wave B) Electromagnetic wave C) Transverse wave D) Longitudinal wave	Correct Ans: D
Q12) Which physicist is known to establish the relationship between mechanical work and heat transfer	?
A) Hermann Helmholtz B) John Dalton C) James Prescott Joule D) William Henry	Correct Ans: C
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Q13) Which part of the bifocal lens facilitates near vision?	
A) Upper part with concave lens B) Lower part with concave lens C) Upper part with convex lens	
D) Lower part with convex lens	
	Correct Ans: D
Constable GD Examination 2024	
Q1) Which of the following is the SI unit of velocity?	
A) kg/m B) kg/s C) $_{s/m}$ D) $_{m/s}$	Correct Ans: D
Q2) Watt is the unit of	
A) Energy B) Momentum C) Resistance D) Power	Correct Ans: D
Q3) In which unit, noise pollution is measured?	
A) Centimeter B) Hertz C) Decibel D) Ohm	Correct Ans: C
Q4) What is the basic unit of time?	
A) Second (s) B) Hour(hr.) C) Minute/second (m/s) D) Minute(min.)	Correct Ans: A
Q5) When something accelerates along a circular path, keeps it going	in the circle.
A) Friction B) Velocity C) Centripetal force D) Elastic force	Correct Ans: C
Q6) Which Law of Newton states that for every action (force) in nature there is an equal and o	pposite reaction?
A) 4th B) 1st C) 3rd D) 2nd	Correct Ans: C
Q7) The loudness of sound is measured in which unit?	
A) Hertz (Hz) B) Sound intensity C) Watt/sq. Metre (w/m ²) D) Decibel (dB)	Correct Ans: D
Q8) The number of oscillations per second is called of oscillation.	
A) pitch B) amplitude C) hertz D) frequency	Correct Ans: D
Q9) Which of the following device is used to measure the distance travelled by the ve	hicle?
A) Speedometer B) Tachometer C) Odometer D) Fuel gauge	Correct Ans: C
Q10) Which of the following is the SI unit of temperature?	
A) Celsius (°C) B) Fahrenheit (F) C) Kelvin (K) D) Pascal (Pa)	Correct Ans: C
Q11) With the Theory of Relativity, transformed the landscape of physics, this theory is to designing the theory of Quantum Machanics.	majorly contributed
 A) Paul G. Hewitt B) Galileo Galilei C) Albert Einstein D) Isaac Newton 	Correct Ans: C
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 Q12) Which one of the following statements regarding magnetic field is correct? A) Magnetic field lines are open curves B) two magnetic field lines are found to cross each other 	er
c) Magnetic field is a quantity that has no direction and magnitude	
D) Magnetic field lines are closed curves	
Correct	Ans: D
Q13) The motion of electric charges creates current and generates an electromagnetic force, resulting in	
A) Magnetism B) Gravity C) Optics D) Electricity Correct	Ans: A
Selection Post XII	
Q1) Which of the following is a poor conductor of electricity?	
A) Tap water B) Distilled water C) Water from pond D) Water from hand pump Correct	Ans: B
Q2) Which physicist is best known for his experiments on generating and confirming the existence of electromage waves?	netic
A) Heinrich Rudolf Hertz B) Albert Einstein C) Isaac Newton D) JJ Thomson	Ans: A
Q3) Using Fleming's right-hand rule, in which direction will the current flow if the direction of magnetic field is town north and the conductor is moving vertically upward?	ards
A) Towards south B) Towards west C) Towards south-west D) Towards east Correct	Ans: B
Q4) A is one billionth of a metre.	
A) angstrom B) micrometre C) parsec D) nanometre Correct	Ans: D
Q5) An argon positive ion fired towards east gets deflected towards south by a magnetic field. The direction of ma field is:	agnetic
A) towards north B) towards south C) upward D) downward Correct	Ans: C
Q6) When did the United Nations declare the World Physics Year, also known as the Einstein Year, to mark the 1 anniversary of the physicist Albert Einstein?	00th
A) 2006 B) 2004 C) 2005 D) 2002 Correct	Ans: C
Q7) Who is credited with inventing the reflecting telescope?	
A) Galileo Galilei B) Isaac Newton C) Johannes Kepler D) Christiaan Huygens Correct	Ans: B
Stenographer Grade C and D Examination 2024	
Q1) For domestic tariff, one unit of electrical energy consumption is equal to:	
A) kilowatt-hour B) milliamps hour C) kilo joule hour D) kilo volt ampere hour Correct	Ans: A
Q2) Which of the following options represents only the units of energy?	
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A) Calorie, Kilowatt hour, Newton B) Joule, Calorie, Newton C) Joule, Newton, Kilowatt hour D) Joule, Calor	rie, Kilowatt hour
	Correct Ans: D
Q3) Which physicist was famous for the gold foil experiment?	
A) Ernest Rutherford B) Niels Bohr C) JJ Thomson D) John Dalton	Correct Ans: A
Q4) Coulomb's law is applicable for	
A) Between two distributed charges B) Between two point charges C) both distributed charges and point cha	rges
D) neither point charges nor distributed charges	
	Correct Ans: B
Q5) How is the image formed by a plane mirror?	
A) Virtual and inverted B) Virtual and erect C) Erect and inverted D) Laterally inverted and virtual	Correct Ans: B
SSC JE 2024 (Junior Engineer)	
Q1) What is the SI unit of force?	
A) Volt B) Joule C) Newton D) Watt	Correct Ans: C
Q2) What is the unit of electric current?	
A) Ohm B) Ampere C) Watt D) Volt	Correct Ans: B
Q3) What is the acceleration due to gravity on the surface of the Earth?	
A) 9.8 m/s ² B) 3.0 m/s ² C) 6.2 m/s ² D) 12.5 m/s ²	Correct Ans: A
Q4) Why is it always emphasised NOT to touch any electric switch board with wet hands?	
A) Water can erode the switchboard. B) Combination of water and our body is a good conductor of electricity.	
C) Wet hands can fade away the colour coat of the switchboard. D) Wet hands might slip from the switch.	
	Correct Ans: B
Q5) Pascal is the SI unit of, which is defined as a force of 1 N applied uniformly over an area	a of 1 m ² .
A) pressure B) energy C) mass density D) power	Correct Ans: A
Q6) The equipment used to record the intensity of an earthquake is	
A) seismograph B) pyrometer C) barometer D) calorimeter	Correct Ans: A
Q7) What is the value of 1 electron volt (eV), which is especially used for nuclear science?	
	Correct Ans: C
Q8) It is difficult to carry a heavy shopping bag with thin handles by hand, but slightly easier when the ha covered with a thick piece of cloth. What is the reason behind that?	andles are
A) Handles become stronger B) Cloth is colourful C) Increase in surface area reduces the force exerted	
D) Chances of tearing are eliminated	
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Correct Ans: C

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Q9) Why is it safer for our hands to use a wooden spoon while cooking in a hot pan instead of using a metalli	c spoon?
A) Wood is a good conductor of heat and helps in cooking. B) Wood adds nice flavours to the food being cooked.	
C) Wood is an insulator and does not heat up. D) Wood helps the food cook faster.	
Corr	ect Ans: C
Q10) Which of the following is NOT a vector quantity?	
A) Acceleration B) Velocity C) Force D) Mass Corre	ect Ans: D
Q11) Rama experiences a drop in temperature as she is getting higher and higher in the mountains while trek What could be the cause of this?	king.
A) Rama's fatigue B) Less water C) Lower air pressure at altitude D) Higher air pressure at altitude Corre	ect Ans: C
Q12) What is u in the equation s = ut + $\frac{1}{2}$ at ² , which represents the position-time relation?	
A) Uniform acceleration B) Initial velocity C) Change in momentum D) Speed of the object Correction	ect Ans: B
Q13) What is the frequency of an object if we know that it oscillates 100 times in 5 seconds?	
A) 50 Hz B) 100 Hz C) 200 Hz D) 20 Hz Corre	ect Ans: D
Q14) A milliamp is a unit of measurement of electric current, which is equal to how many amps?	
A) 0.0001 AMP B) 0.001 AMP C) 0.01 AMP D) 0.00001 AMP	ect Ans: B
 Q15) Meera shifted to a new house and was fixing light bulbs in her apartment. One of the three bulbs she fix light up. Upon testing she realised it was a case of fused bulb. So, she bought a new one which then lit perfectly. Select the correct option that describes what happened to the fused bulb. A) The switch for the bulb was not turned on B) Meera did not fix the bulb to the holder properly C) The filament inside it was broken D) There was no connection between the bulb holder and the switch 	
Corr	ect Ans: C
Q16) The SI unit of which fundamental physical quantity is named in the honour of Charles Augustin Coulomb	o?
A) Electric current density B) Electric field C) Electric charge D) Electric power	ect Ans: C
Q17) If 'G', 'M' and 'R' represent the universal gravitation constant, mass of the earth and radius of the earth, respectively, then which of the following is the correct expression for the acceleration due to gravity (g) of surface of the earth?	on the
A) GM/R^2 B) GM^2/R C) GM/R D) GMR^2 Corr	ect Ans: A
Q18) Sahil Sarabhai is standing in the middle. On one side, his wife Monisha is pulling him with a force of 100 eastward, whereas his mother, Maya is pulling him with a force of 150 N westward. What will be the net Sahil and towards whom will he move in the end if at all?	
A) 50N, Monisha B) 250N, will not move C) 50N, Maya D) -50N, Maya Corre	ect Ans: C
Q19) Sometimes when heated, solid changes into liquid at normal atmospheric pressure on reaching its melti What is the name of the amount of heat required?	ing point.
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A) Latent heat of diffusion B) Latent heat of fusion C) Latent melting point D) Latent change of state point	Correct Ans: B
Q20) A nonstop train moving on a straight track with a uniform acceleration passed station A at a velocit reached the next station B at a velocity of '5u'. Its average velocity between the given stations is:	ty of 'u' and
A) 2u B) 2.5u C) 3u D) 4u	Correct Ans: C
Q21) A low pitched but louder sound has	
 A) lower frequency and higher amplitude B) higher frequency and lower amplitude C) lower frequency and lowe	ower amplitude
	Correct Ans: A
Q22) The Greek letter 'Omega' is used to represent which physical quantity in the International System	of Units (SI)?
A) Electric displacement field B) Electrical conductance C) Electric potential difference D) Electric resistance	
	Correct Ans: D
Q23) 5 stones were dropped from the top of a building. They all fell to the ground in straight lines. What about their motion?	can be said
A) They had rectilinear motion B) They had curvilinear motion C) They had slow motion D) They had gravit	y free motion
	Correct Ans: A
Q24) A cricket ball of mass 160 grams was dropped from a height of 50 metres. What would be its kinet before touching the ground? [use the value of acceleration due to gravity as 10 m/s ²]	tic energy just
A) 50 joules B) 80 joules C) 8 joules D) 160 joules	Correct Ans: B
Q25) What balances the atmospheric pressure with equal force so that animals do not crumble under the exerted on them by the atmosphere?	ne high pressure
A) Moon's gravitational pull B) Pressure because of sunlight C) Energy produced by the food consumed D)	Blood Pressure
	Correct Ans: D
Q26) In electricity overloading cannot be caused by:	~
A) connecting too many appliances to a single socket B) accidental hike in the supply voltage	
C) the live wire coming in direct contact with the neutral wire	
D) the live wire and the neutral wire coming into contact through a heavy resistance	
	Correct Ans: D
 Q27) In 1800, which of the following experimental achievements was made by William Nicholson? A) Discovery of water electrolysis B) Discovery of thermionic emission C) Discovery of low-cost filters for po 	larizing light
D) Discovery of electric bulb	
	Correct Ans: A
Q28) Otto von Guericke was the most prominent person known for which invention in the 17 th century?	
A) Air pump B) Barometer C) Fluorescent electric lamp D) Diesel engine	Correct Ans: A
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Gagan Pratap Maths	
Chemistry	
Combined Graduate Level Examination Tier I 2024	
 Q1) What kind of radiation is absorbed by the ozone layer? A) Green radiation B) Infrared radiation C) Visible radiation D) Ultraviolet radiation 	Correct Ans: D
Q2) Identify the structural formula for magnesium hydroxide. A) MgOH B) MgO ₂ C) Mg ₂ H ₂ D) Mg(OH) ₂	Correct Ans: D
Q3) Which of the following chemical reactions takes place when quick lime reacts with water? A) CaO(s) + H ₂ O(l) \rightarrow Ca + H ₂ (aq) B) C(s) + O ₂ (g) \rightarrow CO ₂ (g) C) CaO(s) + H ₂ O(l) \rightarrow Ca(OH) ₂ (aq) D) CH ₄ (g) + 2O ₂ (g) \rightarrow CO ₂ (g) + 2H ₂ O (g)	
	Correct Ans: C
Q4) Which number is called Avogadro's constant, named after the 19 th century scientist Amedeo Avoga A) 6.022×10^{23} B) 6.020×10^{20} C) 6.032×10^{19} D) 6.012×10^{21}	idro? Correct Ans: A
Q5) 'Au' is the symbol for which of the following elements? A) Gold B) Aluminium C) Silver D) Argon	Correct Ans: A
Q6) Which of the following elements is a metalloid? A) Iron B) Oxygen C) Sodium D) Silicon	Correct Ans: D
Q7) Which gas is evolved when iron and water react? A) Hydrogen B) Oxygen C) Ammonia D) Methane	Correct Ans: A
Q8) Which of the following is NOT a halogen gas? A) F B) He C) Cl D) Br	Correct Ans: B
 Q9) What is the product formed when zinc and sulphuric acid react? A) Zinc sulphate B) Zinc hydroxide C) Zinc sulphide D) Zinc oxide 	Correct Ans: A
Q10) Which of the following gases get released when dilute sulphuric acid (H ₂ SO ₄) reacts with magnes A) SO ₃ B) SO ₂ C) O ₂ D) H ₂	sium (Mg)? Correct Ans: D
Q11) Identify a monoatomic molecule. A) carbon monoxide B) Oxygen C) Helium D) Chlorine	Correct Ans: C
Q12) The cause of a redox reaction is the: A) transfer of electrons between two reactants B) transfer of electrons between two products	
C) transfer of neutrons between two reactants D) exchange of halogens between two reactants	Correct Ans: A

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Gagan Pratap Maths	
Q13) What is the gas evolved when zinc reacts with sulphuric acid?	
A) Hydrogen B) Oxygen C) Carbon dioxide D) Hydrogen sulphide	Correct Ans: A
Q14) A dense mass of water drops on smoke or dust particles in the lower atmosphere layers is referred	I to as:
A) mist B) blizzard C) frost D) smog	Correct Ans: D
Q15) Which of the following is NOT a physical change?	
A) Heating of iron rod to red hot B) Curdling of milk C) Evaporation of diesel D) Sublimation of NH ₄ Cl	Correct Ans: B
Q16) Transition elements are the elements that are found in Groups 3-12 of the modern periodic table, t the	hat constitute
A) d-block B) s-block C) p-block D) f-block	Correct Ans: A
Q17) In the context of periodicity, a unit called picometre is used to measure the	
A) atomic radius B) molar mass C) atomic density D) spin quantum number	Correct Ans: A
Q18) How many carbon dioxide and water molecules will be there in the product side, if the following eq balanced?	uation is made
$C_2H_5OH+O_2 \rightarrow CO_2+H_2O$ A) 3 and 6, respectively B) 1 and 1, respectively C) 2 and 3, respectively D) 3 and 2, respectively	Correct Ans: C
Q19) Which polyatomic ionic compound is a white, crystalline powder used in fire extinguishers and to n and bases?	eutralise acids
A) Sodium Bisulphite B) Sodium Thiosulphate C) Sodium Chromate D) Sodium Bicarbonate	Correct Ans: D
Q20) Name the straight chain alkane having chemical formula C ₉ H ₂₀ , which is used as a research chem making biodegradable detergents.	ical and in
A) Nonane B) Dodecane C) Nonadecane D) Icosane	Correct Ans: A
Q21) Which of the following is a saturated hydrocarbon?	
A) C_3H_8 B) C_6H_6 C) C_2H_4 D) C_4H_8	Correct Ans: A
Q22) Which of the following is NOT a greenhouse gas?	
A) Methane B) Carbon dioxide C) Nitrous oxide D) Nitric oxide	Correct Ans: D
Q23) Which of the following is a straight-chain alkyl carboxylic acid with the chemical formula CH_3CH_2C	H ₂ CO ₂ H?
A) Methanoic acid B) Propionic acid C) Ethanoic acid D) Butyric acid	Correct Ans: D
Q24) A chemical reaction in which the rate of reaction is directly proportional to the first power of the cor the reacting substance is called:	centration of
A) zero order reaction B) third order reaction C) second order reaction D) first order reaction	Correct Ans: D
Q25) Which of the following statements is INCORRECT regarding water remaining colder in an earthen	pot (matka)?
A) Water gets evaporated at the surface of the earthen pot. B) The earthen pot is porous.	
C) Environmental water vapour enters the pot through pores. D) The water oozes out through the pores in an	earthen pot.
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	Correct Ans: C
Q26) Which type of radiation has very short (<10 ⁻³ nm) wavelengths, produced by nuclear explosions, I less dramatic activity of radioactive decay?	ightning and
A) Gamma B) Infra-red C) Microwave D) Ultraviolet	Correct Ans: A
Q27) When electricity is passed through water, what kind of chemical reaction occurs?	
A) Decomposition B) Displacement C) Double displacement D) Combination	Correct Ans: A
Q28) Which of the following statements are true based on the $4NH_3(g)+5O_2(g)\rightarrow 4NO(g)+6H_2O(g)$?	
(a) N gets oxidized.	
(b) O gets oxidized.	
(c) N gets reduced.	
(d) O gets reduced.	
A) (a) and (d) B) (a) and (b) C) (c) and (d) D) (b) and (c)	Correct Ans: A
Q29) Which of the following gases plays an important role in welding titanium, aluminium, stainless stee magnesium?	el, and
A) Fluorine B) Neon C) Argon D) Chlorine	Correct Ans: C
Q30) In Newlands' Octaves, the properties of lithium and were found to be the same.	
A) sodium B) aluminium C) magnesium D) beryllium	Correct Ans: A
Q31) Which of the following statements is INCORRECT?	
A) Fats and oils get reduced over time and smell bad. B) Fats and oils are oxidised, they become rancid.	
C) Antioxidants are added to foods containing fats and oil to prevent oxidation.	
D) Chips manufacturers usually flush bags of chips with Nitrogen to prevent the chips from getting ranicid.	
	Correct Ans: A
Q32) Ernest Rutherford used about thick gold foil for alpha scattering experiments.	
A) 500 atoms B) 1000 atoms C) 900 atoms D) 700 atoms	Correct Ans: B
Q33) According to Mendeleev's Periodic Table, which elements' properties matched up remarkably well silicon?	with eka-
A) Gallium B) Scandium C) Titanium D) Germanium	Correct Ans: D
Q34) To which group do the alkaline earth metals such as radium, barium and strontium belong?	
A) Group 5A B) Group 2A C) Group 1A D) Group 3A	Correct Ans: B
Q35) Which of the following is Fisher's equation of exchange?	
A) $MV = PT$ B) $MT = VP$ C) $M = S + I$ D) $\frac{M}{V} = \frac{T}{P}$	Correct Ans: A

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Gagan Pratap Maths	
Q36) Which allotrope of carbon was discovered by Robert F Curl, Harold W Kroto and Richard E Smalle A) Graphene B) Lonsdaleite C) Carbophene D) Fullerene	ey in 1985? Correct Ans: D
Q37) Why does the milkman add a very small amount of baking soda to fresh milk?A) To reduce the pH of the fresh milk from 6 to slightly more acidic	
 B) To increase the pH of the fresh milk from 6 to slightly alkaline C) To maintain the pH of the fresh milk at 6 for D) To reduce the pH of the fresh milk from 6 to slightly alkaline 	or a longer time
	Correct Ans: B
 Q38) Find out why white silver chloride turns grey in sunlight. A) Due to rusting of silver in presence of oxygen B) Due to redox reaction C) Due to the decomposition of silver chloride into silver and chlorine by light 	
D) Due to the displacement of silver chloride to silver oxide	
	Correct Ans: C
Q39) Who reconciled Dalton's atomic hypothesis with Gay-Lussac's results on the combination of volum A) Robert Boyle B) Amadeo Avogadro C) Fred Hoyle D) Jacques Charles	nes in 1811? Correct Ans: B
Q40) Grignard reagent is represented as: A) CH ₃ -Ca-F B) CH ₃ -Be-F C) CH ₃ -Mg-Cl D) H-Mg-H	Correct Ans: C
Q41) Which of the following is the most acidic? A) HCOOH B) C ₂ H ₅ COOH C) C ₃ H ₇ COOH D) CH ₃ COOH	Correct Ans: A
Q42) Calculate the oxidation number of 'S' in $H_2S_2O_7$. A) 3 B) 7 C) 6 D) 2	Correct Ans: C
Q43) The chemical formula of glucose is $C_6H_{12}O_6$. The weight % of carbon in glucose is	s:
A) 40 B) 72 C) 53 D) 25	Correct Ans: A
 Q44) What was Antoine-Laurent Lavoisier's most important contribution to chemistry in 1789? A) Law of Conservation of Mass B) Law of Multiple Proportions C) Law of Definite Proportions D) Law of Conservation of Energy 	
	Correct Ans: A
Q45) Identify an example of plasma as a state of matter. A) Blood B) Dry ice C) Freon D) Neon sign bulbs	Correct Ans: D
Q46) When you take Lead nitrate powder in a boiling tube and heat it, you will observe the emission of that are of	brown fumes
A) Nitrous oxide B) Nitric oxide C) Nitrogen dioxide D) Dinitrogen trioxide	Correct Ans: C

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Gagan Pratap Maths	
Q47) For a chemical reaction with rise in temperature by 10°, the rate constant becomes nearly	
A) Double B) Triple C) one-fourth D) half	Correct Ans: A
Q48) Who first stated the principle of refraction that postulates that every substance has a specific benc 'refractive index'?	ling ratio –
A) Dennis Gabor B) Thomas Young C) Willebrord Snellius D) David Brewster	Correct Ans: C
Q49) Which of the following gases emits red light when electricity is passed through it?	
A) Neon B) Hydrogen C) Argon D) Helium	Correct Ans: A
Q50) As per Mendeleev's prediction, atomic mass of eka-aluminium was:	
A) 100 B) 44 C) 72 D) 68	Correct Ans: D
Q51) The type of reaction that is typically found when a material that is required for the reaction to proce surface or a catalyst, is saturated by the reactants is called a order reaction.	eed, such as a
A) first B) second C) zero D) third	Correct Ans: C
Q52) Exfoliation is a form of	
A) physical weathering B) chemical weathering C) mass wasting D) biochemical weathering	Correct Ans: A
Q53) When haloalkanes and aryl and vin <mark>yl halide</mark> s react with magnesium metal they yield which reagen	t?
A) Hinsberg reagent B) Grignard reagent C) Tollens' reagent D) Fehling reagent	Correct Ans: B
Q54) Who developed the theory of combustion as a chemical reaction with oxygen in the 18th century, t phlogiston theory?	hat excluded
A) Antoine Lavoisier B) Robert Boyle C) Friedrich Wöhler D) Johann Becher	Correct Ans: A
Q55) The decomposition of gaseous Ammonia on a hot platinum surface is a order r pressure.	reaction at high
A) two B) zero C) three D) one	Correct Ans: B
Q56) What is the IUPAC name of tertiarybutyl alcohol?	~
A) 2-Methylpropan-2-ol B) 1-propylpropan-3-ol C) 1-Methylpropan-3-ol D) 1-ethylpropan-3-ol	Correct Ans: A
Q57) Which of the following is a correct order of basicity?	
A) LIOH>NaOH>KOH>CsOH B) LIOH>KOH>CsOH>NaOH C) KOH>CsOH>NaOH>LIOH D) CsOH>KOH>	NaOH>LiOH
	Correct Ans: D
Q58) Palladium on barium sulphate (Pd/BaSO ₄) is also known as:	
A) a Hillman reaction catalyst B) a Cannizzaro reaction catalyst C) the Rosenmund catalyst D) an aldol rea	ction catalyst
	Correct Ans: C
Q59) Which of the following decomposition reactions is NOT a redox reaction?	
A) Decomposition of dihydrogen monoxide B) Decomposition of sodium hydride C) Decomposition of potass	sium chlorate
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D) Decomposition of calcium carbonate	
	Correct Ans: D
Q60) An organic reaction used to convert an aryl diazonium salt into an aryl halide using a copper(I) hal called:	ide catalyst is
A) Finkelstein reaction B) Gattermann reaction C) Sandmeyer reaction D) Balz-Schiemann reaction	Correct Ans: C
Q61) Which two organic chemists are known for observing the peroxide effect in adding reagents to uns compounds in 1933?	aturated
A) Morris S Kharasch and Frank R Mayo B) C John Cadogan and Luis M Campos	
C) B Steven Bachrach and Roald Hoffmann D) Justus von Liebig and Friedrich Wöhler	
	Correct Ans: A
Q62) In which musical note did Newland put the metals Co and Ni with halogens?	
A) Fa B) Do C) Re D) Mi	Correct Ans: B
CHSL Exam 2024 Tier I	
Q1) Which of the following isotopes is used as a fuel in nuclear power plants for generating electricity?	
A) Uranium- 235 B) Arsenic-74 C) Carbon-14 D) Sodium-24	Correct Ans: A
Q2) Identify a carbohydrate but does not fit into the definition.	
A) Maltose B) Sucrose C) Fructose D) Rhamnose	Correct Ans: D
Q3) Which of the following is an example of a 'solid in a liquid' type of solution?	
A) Tincture of iodine B) Vinegar C) Brass D) Bronze	Correct Ans: A
Q4) Milk of magnesia is a suspension of <u>CSSER</u> in water.	
A) magnesium oxalate B) magnesium hydroxide C) magnesium chlorate D) magnesium bromide	Correct Ans: B
Q5) What is the IUPAC name of the compound CH ₃ NH ₂ ?	
A) Propan-1-amine B) Methanamine C) 2-Methyl propan-l-amine D) Ethanamine	Correct Ans: B
Q6) The reaction of an acid and a metal gives:	
A) hydrogen gas and salt B) carbon dioxide, salt and water C) salt and water D) carbon dioxide, salt and hy	
	Correct Ans: A
Q7) Which of the following devices is used to accelerate charged particles to high velocities?	
A) cryotron B) copatron C) cosmotron D) cyclotron	Correct Ans: D
Q8) Which of the following contains small droplets of liquid or particles of solid dispersed in a gas?	
A) Gel B) Vapour C) Aerosol D) Foam	Correct Ans: C
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Q9) Which of the following planets' atmosphere is made up of thick white and yellowish clouds of sulphi	uric acid?
A) Venus B) Neptune C) Mars D) Jupiter	Correct Ans: A
Q10) Select the olfactory indicator from among the given options.	
A) Petunia B) Clove oil C) Turmeric D) Cabbage juice	Correct Ans: B
Q11) Who discovered the atomic number based on X-ray wavelength in 1913?	
A) AEB de Chancourtois B) Dmitri Mendeleev C) Henry Moseley D) RA Millikan	Correct Ans: C
012) Why is the six membered cyclic structure of glucose called a pyrapase structure?	
Q12) Why is the six membered cyclic structure of glucose called a pyranose structure?A) Pyran is a non-cyclic organic compound, with one oxygen atom and five carbon atoms in the ring.	
B) Pyran is a cyclic organic compound, with one oxygen atom and five carbon atoms in the ring.	
C) Furan is a five membered non-cyclic compound, with one oxygen and four carbon atoms.	
D) Furan is a five membered cyclic compound, with one oxygen and four carbon atoms.	
- r dram o d nye membered cyclic compound, with one oxygen and lour carbon atoms.	Correct Ans: B
	Correct Ans: B
Q13) The method of separating a mixture of soluble solids by dissolving them in a suitable hot solvent a	and then
A) fractional crystallisation B) dephlegmation C) azeotropic distillation D) sublimation	Correct Ans: A
	SUITECLAIIS. A
Q14) Which of the following statements best describes the Hardy Schulze rule?	
A) The ions are removed from the solution by the phenomenon of diffusion through a permeable membrane.	
B) The partial pressure of a component in a liquid mixture is proportional to its mole fraction in that mixture.	
C) This is applied to obtain a colloidal solution of metals such as gold, silver or platinum.	
D) The amount of electrolyte required for the coagulation of a definite amount of a colloidal solution is dependent valency of the coagulating ion.	ent on the
	Correct Ans: D
Q15) Which of the following reactions leads to the formation of glucose pentaacetate from acetic anhyd	ride?
A) Acetylation of glucose B) Oxidation C) Addition of ketone D) Reduction	Correct Ans: A
Q16) In which of the following liquids would anthracene dissolve easily?	
A) Benzene B) Sodium chloride C) Methane D) Water	Correct Ans: A
Q17) Electrochemical cell is a device which converts chemical energy into electrical energy in a/an	
A) oxidation reaction B) reduction reaction C) direct redox reaction D) indirect redox reaction	Correct Ans: D
Q18) A proton bonds to the oxygen atom of a solvent water to give a hydr	onium ion.
A) square pyramid B) trigonal pyramidal C) tetrahedral D) square planar	Correct Ans: B
Q19) In 1960, which isotope was used to define the standard measure of length?	
A) Krypton-86 B) Krypton-88 C) Krypton-83 D) Krypton-90	Correct Ans: A

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Q20) In which year did Johannes Nicolaus Bronsted and Thomas Martin Lowry propose the fundamenta	al concept of
acids and bases?	
A) 1928 B) 1921 C) 1925 D) 1923	Correct Ans: D
Q21) Which non-essential amino acid is synthesised by the hydroxylation of phenylalanine in a reaction phenylalanine hydroxylase?	catalysed by
A) Glutamine B) Tyrosine C) Cysteine D) Glycine	Correct Ans: B
Q22) In which year did Robert Brown observe the zigzag movement of colloidal particles in solution?	
A) 1829 B) 1826 C) 1828 D) 1827	Correct Ans: D
MTS Non Tech Havaldar CBIC and CBN Examination 2024	
Q1) The liquid water present in oceans, lakes and rivers gets converted to the gaseous form in the pres in the water cycle. This step is called:	ence of sunlight
A) Condensation B) Melting C) Precipitation D) Evaporation	Correct Ans: D
Q2) Limestone is composed of:	
A) iron oxide B) sodium carbonate C) aluminium oxide D) calcium carbonate	Correct Ans: D
Q3) Which of the following gases is generally used to flush bags of chips by the manufacturers?	
A) Nitrogen B) Oxygen C) Compressed air D) Carbon dioxide	Correct Ans: A
Q4) What is the name of the process of org <mark>an</mark> ic matter being broken down into simpler compounds by c	lecomposers?
A) Respiration B) Fermentation C) Decomposition D) Photosynthesis	Correct Ans: C
Q5) Which substance is commonly added to tap water to make it safe for drinking by killing harmful mic	roorganisms?
A) Fluoride Calcium C) Iron D) Chlorine St Ramking	Correct Ans: D
Q6) What is the primary acid found in citrus fruits like oranges and lemons?	
A) Citric acid B) Tartaric acid C) Acetic acid D) Lactic acid	Correct Ans: A
Q7) Which of the following is the compound with the chemical formula H ₂ SO ₄ ?	
A) Sulfurous Acid B) Hydrogen Sulfide C) Nitric Acid D) Sulfuric Acid	Correct Ans: D
Q8) What is the charge of an electron?	
A) Neutral B) Variable C) Negative D) Positive	Correct Ans: C
Q9) What is the chemical reaction that occurs when sugar is heated and turns into a caramel syrup?	
A) Precipitation B) Caramelisation C) Maillard reaction D) Neutralisation	Correct Ans: B
Q10) What is the process of a substance changing directly from a solid to a gas without passing through called?	n the liquid state
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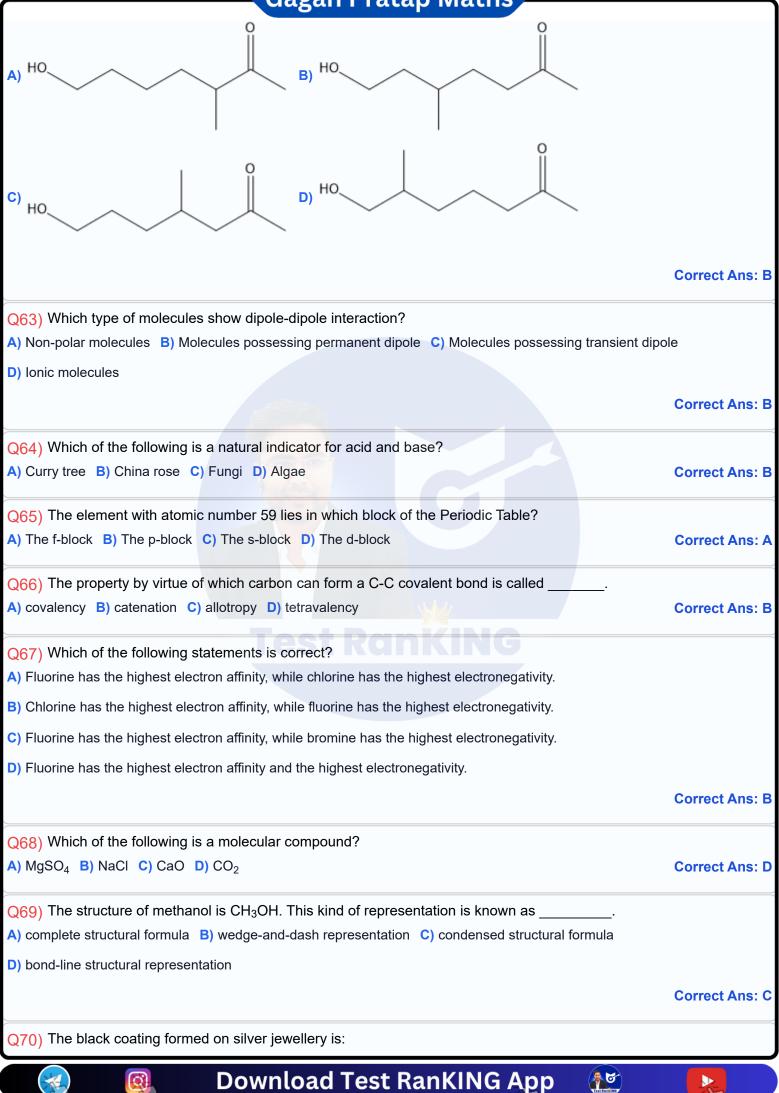
Gagan Pratap Maths	
A) Sublimation B) Evaporation C) Fusion D) Condensation	Correct Ans: A
Q11) When the pH value of soils is more than 7.5, they are considered to be:	
A) neutral soils B) alkaline soils C) strongly acidic soils D) slightly acidic soils	Correct Ans: B
Q12) Which of the following statements about nutrients are correct?	
 Statement A: C, H, O, N, P and K are macro nutrients. Statement B: Fe, Mn, Ni, Co and Mo are micronutrients. Statement C: Micronutrients are not essential for our body. A) All statements A, B and C B) Only statements A and C C) Only statements B and C D) Only statements A 	and B
	Correct Ans: D
Q13) The property of rock or soil that indicates the ability of allowing fluids to flow through it is called:	
A) Plasticity B) Density C) Permeability D) Stability	Correct Ans: C
 Q14) Meher had two large chunks of coal. She set fire to the first chunk and broke the second one into p Meher understand what kind of changes happened to the two chunks of coal at the end of the active all the applicable statements. A. Both chunks of coal underwent physical changes only. B. The changes were reversible for the first chunk of coal only. C. Only physical changes took place for the second chunk of coal. D. Both chunks of coal underwent chemical changes only. E. The first case is an example of chemical changes. 	-
	Correct Ans: C
Q15) The elements that are liquid at room temperature (25°C) are: A) helium and mercury B) bromine and chlorine C) bromine and mercury D) helium and chlorine	Correct Ans: C
Q16) On boiling an egg, why does the outer part become opaque and white?	
A) The heat causes a reaction of the egg with water and makes it opaque.	
B) The heat causes denaturation, hardening the albumin and colouring it opaque white	
C) The heat causes a change in the crystal structure of egg yolk. D) The heat causes a change in the structure	e of egg protein.
	Correct Ans: B
Q17) What is the chemical formula for potassium permanganate?	
	Correct Ans: B
Q18) Which element is known for having the highest electronegativity on the periodic table?	
A) Hydrogen B) Oxygen C) Carbon D) Fluorine	Correct Ans: D
Q19) What is denatured alcohol?	
A) Ethanol mixed with little methanol B) Pure Ethanol C) Propanol D) Pure Methanol	Correct Ans: A
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Gagan Pratap Maths	
Q20) The elements in Group 17 of the periodic table are known as: A) noble gases B) alkali metals C) transition metals D) halogens	Correct Ans: D
Q21) What is the chemical formula for sodium bicarbonate? A) NaHCO ₃ B) Na ₂ CO ₃ C) NaCl D) NaOH	Correct Ans: A
Q22) What is the atomic number of uranium (U)? A) 94 B) 90 C) 104 D) 92	Correct Ans: D
Q23) What is the chemical name for the compound responsible for the cooling sensation in mint leaves? A) Caffeine B) Ethanol C) Capsaicin D) Menthol	? Correct Ans: D
Q24) Which element is located in Group 18 of the periodic table and is known for its lack of chemical real A) Chlorine B) Fluorine C) Helium D) Oxygen	activity? Correct Ans: C
Q25) A molecule with the chemical formula C ₂ H ₆ is a/an molecule. A) methane B) butane C) propane D) ethane	Correct Ans: D
Q26) Which of the following represents the chemical formula for sulphur hexafluoride? A) SF_6 B) S_6F C) S_2F_6 D) SF_2	Correct Ans: A
Q27) Which of the following two properties of metals are exploited to prepare very thin sheets of silver to sweets?	
 A) Malleability and sonorous B) Ductility and lustre C) Malleability and lustre D) Lustre and sonorous Q28) Which of the following statements are correct postulates of Dalton's atomic theory? A. All matter is made up of atoms. These atoms participate in chemical reactions. B. Atoms might be created or destroyed during a chemical reaction. C. Atoms of different elements vary in mass and chemical properties. D. Compounds are combination of atoms in the ratio of whole or fractional numbers. E. A compound will always have constant relative number and kind of atoms. A) B, C, D B) B, D, E C) A, C, E D) A, B, D 	Correct Ans: C
 Q29) The temperature of −273.15°C is called A) freezing point of water B) zero-point energy C) standard temperature D) absolute zero temperature 	Correct Ans: D
Q30) Select the imbalanced chemical equation from the following. A) 10 KClO ₃ + 3 P ₄ \rightarrow 3 P ₄ O ₁₀ + 10 KCl B) 3 CaCl ₂ + 2 Na ₃ PO ₄ \rightarrow Ca ₃ (PO ₄) ₂ + 6 NaCl C) 6 HClO ₄ + P ₄ O ₁₀ \rightarrow 4 H ₃ PO ₄ + 6 Cl ₂ O ₇ D) 3 Hg(OH) ₂ + 2 H ₃ PO ₄ \rightarrow Hg ₃ (PO ₄) ₂ + 6 H ₂ O	
	Correct Ans: C
Q31) A four-carbon chain with a triple bond is called A) butene B) butyne C) butanol D) butanal	Correct Ans: B
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Q33) What is the chemical formula for the compound commonly known as 'laughing gas'?A) NOB) N_2O_3 C) N_2O Q34) What is the primary gas responsible for the leavening effect in bread when yeast ferments sugars?A) Carbon dioxideB) OxygenC) NitrogenD) HeliumCorrectQ35) Below are two chemical equations: $Zn (s) + CuSO_4 (aq) \rightarrow ZnSO_4 (aq) + Cu (s)$ $Pb (s) + CuCl_2 (aq) \rightarrow PbCl_2 (aq) + Cu (s)$ Why does copper get separated from its compound form in both the cases?A) Zinc and Lead are unstable in element form.B) Zinc and Lead are more reactive than Copper.	
D) Ozone is formed from oxygen in the presence of ultraviolet radiation. Q33) What is the chemical formula for the compound commonly known as 'laughing gas'? A) NO B) N_2O_3 C) N_2O D) NO_2 Correction (234) What is the primary gas responsible for the leavening effect in bread when yeast ferments sugars? A) Carbon dioxide B) Oxygen C) Nitrogen D) Helium Correction (235) Below are two chemical equations: Zn (s) + CuSO ₄ (aq) \rightarrow ZnSO ₄ (aq) + Cu (s) Pb (s) + CuCl ₂ (aq) \rightarrow PbCl ₂ (aq) + Cu (s) Why does copper get separated from its compound form in both the cases? A) Zinc and Lead are unstable in element form. B) Zinc and Lead are more reactive than Copper.	
CorrelQ33) What is the chemical formula for the compound commonly known as 'laughing gas'?A) NOB) N_2O_3 C) N_2O Q34) What is the primary gas responsible for the leavening effect in bread when yeast ferments sugars?A) Carbon dioxideB) OxygenC) NitrogenD) HeliumCorrelQ35) Below are two chemical equations: $Zn (s) + CuSO_4 (aq) \rightarrow ZnSO_4 (aq) + Cu (s)$ $Pb (s) + CuCl_2 (aq) \rightarrow PbCl_2 (aq) + Cu (s)$ Why does copper get separated from its compound form in both the cases?A) Zinc and Lead are unstable in element form.B) Zinc and Lead are more reactive than Copper.	kin cancer.
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A) NO B) N ₂ O ₃ C) N ₂ O D) NO ₂ Correct Q34) What is the primary gas responsible for the leavening effect in bread when yeast ferments sugars? A) Carbon dioxide B) Oxygen C) Nitrogen D) Helium Correct Q35) Below are two chemical equations: Zn (s) + CuSO ₄ (aq) \rightarrow ZnSO ₄ (aq) + Cu (s) Pb (s) + CuCl ₂ (aq) \rightarrow PbCl ₂ (aq) + Cu (s) Why does copper get separated from its compound form in both the cases? A) Zinc and Lead are unstable in element form. B) Zinc and Lead are more reactive than Copper.	ect Ans: E
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A) Zinc and Lead are unstable in element form. B) Zinc and Lead are more reactive than Copper.	
C) Copper compounds break down under high pressure. D) Copper is more reactive than Zinc and Lead.	
	ect Ans: E
Cone	ect Ans. E
Q36) JJ Thomson is known for developing which model in 1898?	
A) Plum pudding model B) Double-slit model C) Gold foil model D) Oil drop model Corre	ect Ans: A
Q37) Which chemical compound is commonly utilised as a preservative in tomato sauce?	
A) Carnosic Acid B) Sodium Benzoate C) Vinegar D) Green Tea Extract Corre	ect Ans: E
Q38) The chemical compound present in turmeric is:	
	ect Ans: E
Q39) When a large amount of carbon dioxide dissolves in a water body, the water becomes acidic because of formation of which of the following acids?	f the
5	ect Ans: C
Q40) Select the INCORRECT statement from the following.	
A) Evaporation is a surface phenomenon. B) Both boiling and evaporation are bulk phenomena.	
C) Boiling is a bulk phenomenon. D) Evaporation causes cooling.	
Corre	ect Ans: E
Q41) How does salt contribute to the preservation of food?	
A) By acting as an antioxidant. B) By inhibiting the growth of microorganisms through osmosis.	
C) By reducing the pH of the food. D) By promoting the Maillard reaction.	
Corre	ect Ans: E
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Q42) Suspended solids in water can increase the haziness of the water. Which of the following represent	nts the
measurement of haziness of water?	
A) Solubility B) Turbidity C) Salinity D) Viscosity	Correct Ans: B
Q43) Select the INCORRECT pair of molecule/formula units and their molar mass from the following.	
A) HCI - 36.5 B) CH ₄ - 16 C) HNO ₃ - 62 D) NaCI - 58.5	Correct Ans: C
Q44) At what temperature do Celsius and Fahrenheit scales have the same value?	
A) $32^{\circ}C$ B) $-32^{\circ}C$ C) $40^{\circ}C$ D) $-40^{\circ}C$	Correct Ans: D
Q45) Which gas is released when you combine vinegar and baking soda in a balloon, causing it to infla	te?
A) Carbon dioxide B) Oxygen C) Nitrogen D) Hydrogen	Correct Ans: A
Q46) Select the correct order of the following metals in terms of their increasing reactivities.	
A) K, Cu, Mg and Au B) Au, Mg, Cu and K C) K, Mg, Cu and Au D) Au, Cu, Mg and K	Correct Ans: D
Q47) In the number 0.002609, the number of significant figures is	
A) four B) seven C) six D) three	Correct Ans: A
Q48) A group of natural substances with variable phenolic structures, which are found in fruits, vegetab is called:	les, and grains
A) Flavonoids B) Resins C) Pectins D) Hopanoids	Correct Ans: A
Q49) According to Newland's Law of Octaves, every eighth element has properties similar to those of the Which of the following elements has properties similar to those of N?	ne first element.
A) AI B) B C) P D) S Test Ranking	Correct Ans: C
Q50) Select the synthetic indicator from among the given options.	
A) Turmeric B) Methyl orange C) Cabbage juice D) Litmus solution	Correct Ans: B
Q51) Which of the following is an alarming effect of thermal pollution in water bodies?	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
A) The random changes in pH values B) Increasing amount of carbon dioxide C) Changes in turbidity	
D) The amount of dissolved oxygen decreased significantly	
	Correct Ans: D
Q52) Select the correct order of processes used for water purification in waterworks. 1. Filtration	
2. Chlorination	
 Suspended impurity sedimentation Solid impurity sedimentation 	
A) 2-1-4-3 B) 1-2-3-4 C) 4-3-2-1 D) 4-3-1-2	Correct Ans: D
Q53) Ortho-sulphobenzimide is one of the artificial sweeteners. It is also known as	
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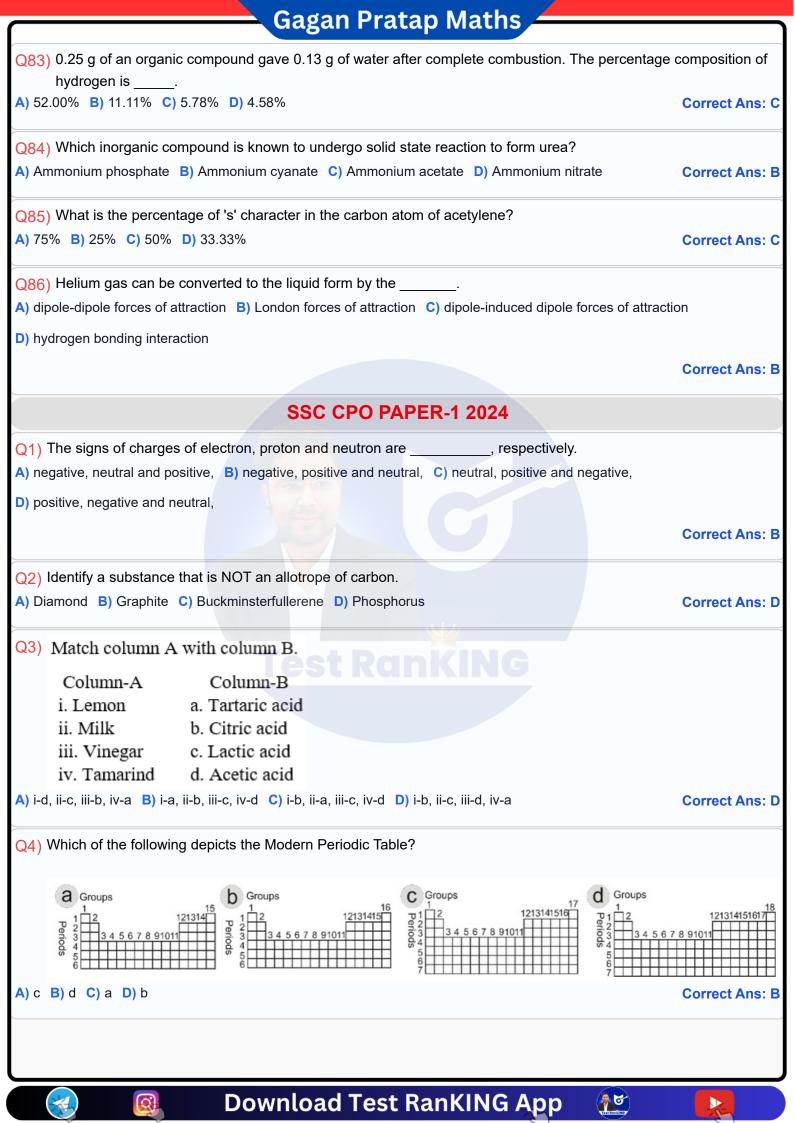


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A) $AgNO_3$ B) Ag_2CO_3 C) $AgCI$ D) Ag_2S	Correct Ans: D
Q71) Which of the following raw materials is NOT used to prepare the baking soda?	
A) NH_3 B) Na_2CO_3 C) $NaCl$ D) H_2O	Correct Ans: B
Q72) The iodine value of oil and fat indicates:	
A) number of C atoms present B) degree of saturation C) degree of unsaturation D) number of iodine atom	
	Correct Ans: C
Q73) Which property of an element is inversely related to its ionisation energy?	
A) Atomic radius B) Electronegativity C) Electron affinity D) Atomic mass	Correct Ans: A
Q74) Moseley observed that the plot of \sqrt{v} against atomic number (Z) gave a straight line. What does A) Frequency of γ -rays emitted B) Frequency of α -rays emitted C) Frequency of X-rays emitted	s v indicate here?
D) Frequency of β-rays emitted	
State of the second	Correct Ans: C
Q75) 0.25 g of an organic compound, on treatment with fuming nitric acid followed by AgNO ₃ , gave 0.2 percentage of bromine in the compound is	22 g of AgBr. The
A) 88.00% B) 50.00% C) 37.45% D) 34.04%	Correct Ans: C
Q76) To which of the following classes of compounds does cyclohexane belong?	
A) Heterocyclic compound B) Non-benzenoid aromatic compound C) Benzenoid aromatic compound D) A	licyclic compound
	Correct Ans: D
Q77) Non-polar molecules possess	
A) partial charge B) no dipole moment C) permanent dipole moment D) instantaneous dipole moment	Correct Ans: D
Q78) The approximate number of water molecules present in 9 gm of water is	
A) 6.022×10^{23} B) 6.022×10^{22} C) 3.011×10^{23} D) 9.023×10^{23}	Correct Ans: C
Q79) 0.25 g of an organic compound gave 0.20 g of CO ₂ after complete combustion. The percentage of carbon is	composition of
A) 80.00% B) 78.18% C) 21.82% D) 4.60%	Correct Ans: C
Q80) Which of the following pollutants is responsible for the acidification of ocean?	
A) Carbon monoxide (CO) B) Carbon dioxide (CO ₂) C) Nitrogen Dioxide (NO ₂) D) Sulphur dioxide (SO ₂)	Correct Ans: B
Q81) The amount of dissolved oxygen in water becomes lowest at what time of the day?	
A) In the dawn B) In the evening C) At night time D) In the afternoon	Correct Ans: A
Q82) The IUPAC name of CH ₃ -(CH ₂) ₁₈ -CH ₃ is	
A) decane B) icosane C) triacontane D) dodecane	Correct Ans: B

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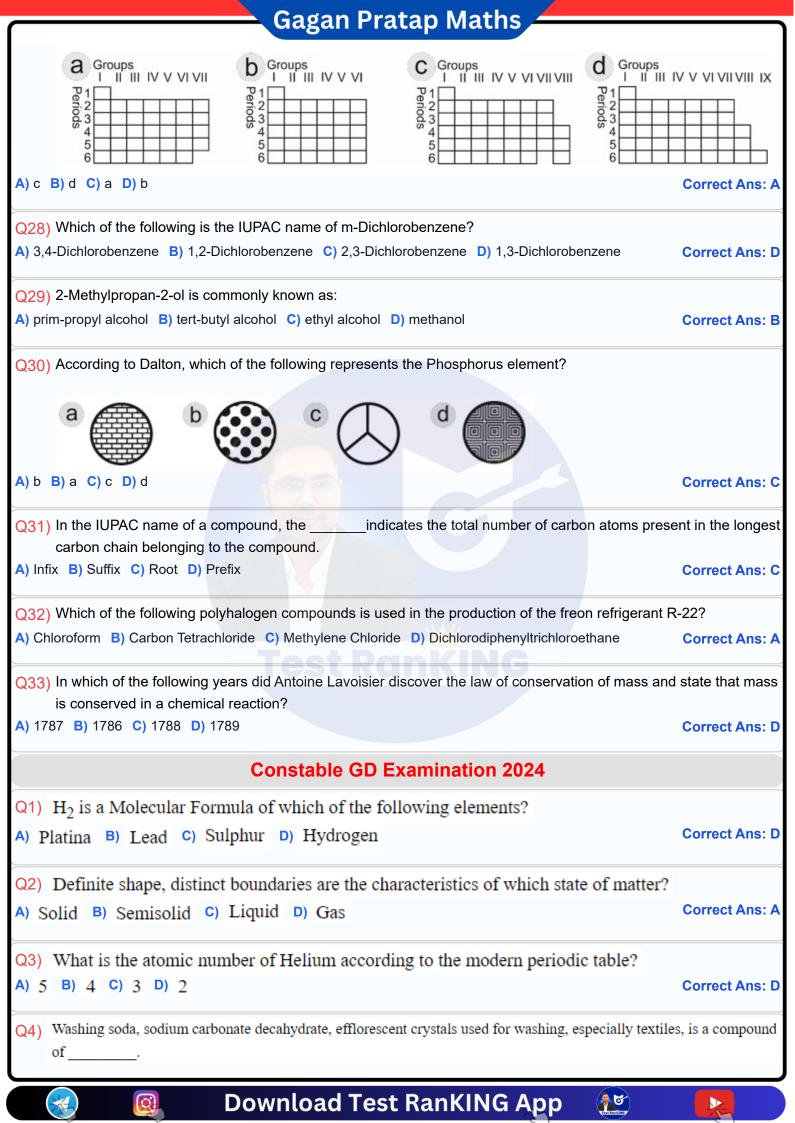


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Q15) Identify the number of electrons found in the outermost shell of halogen.	
A) Two B) One C) Five D) Seven	Correct Ans: D
Q16) Which of the following is the main active ingredient of clove oil?	
A) Eugenol B) Curcuma C) Malic acid D) Tartaric acid	Correct Ans: A
Q17) What is the name of the aromatic compound in the given figure?	
A) Naphthalene B) Tropone C) Cyclohexene D) Tetrahydrofuran	Correct Ans: A
Q18) The tendency of an atom or a functional group to attract a shared pair of electrons toward itself, is	known as:
A) electronegativity B) electron affinity C) electro-positivity D) electro attraction	Correct Ans: A
Q19) Select the name of the hydrocarbon with a structural formula $CH_3 - CH_2 - CH_2 - CH_2 - CH_2 - CH_2 - CH_3$	3.
A) 2-Methylpentane B) n-Hexane C) 2,2-Dimethylbutane D) 3-methyl hexane	Correct Ans: B
Q20) Which of the following is an open chain organic compound?	
A) Acetaldehyde B) Tetrahydrofuran C) Benzene D) Toluene	Correct Ans: A
Q21) Which phenomenon is opposite to solidification?	
A) Condensation B) Fusion C) Vaporisation D) Sublimation	Correct Ans: B
Q22) Which of the following compounds is an Alicyclic compound?	
A) Ethane B) Isobutane C) Acetic acid D) Cyclopropane	Correct Ans: D
Q23) Name the white precipitate formed in the reaction of sodium sulphate and barium chloride.	
A) Sodium chloride B) Sodium oxide C) Barium hydroxide D) Barium sulphate	Correct Ans: D
Q24) According to Mendeleev's Periodic Table, which element's properties matched up remarkably well aluminium?	with eka-
A) Scandium B) Gallium C) Titanium D) Germanium	Correct Ans: B
Q25) The depositional pattern of CaCO ₃ and other materials that extend upwards from the floor of a lim is known as:	estone cavern
A) Stalactite B) Dripstone C) Stalagmite D) Hatectite	Correct Ans: C
Q26) Which of the following organic compounds is a benzenoid?	
A) Aniline B) Hexane C) Propane D) Acetaldehyde	Correct Ans: A
Q27) Which of the following figures represents Mendeléev's Periodic Table that was published in a Gerr 1872?	man journal in

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A) sodium B) carbon C) oxygen D) hydrogen	Correct Ans: A
Q5) What is the chemical formula for barium hydroxide? A) Ba(OH) ₃ B) Ba(OH) ₂ C) Ba ₂ OH D) BaOH	Correct Ans: B
Q6) Which of the following statement is correct regarding rate of diffusion of liquids?	
I. Rate of diffusion of liquids is higher than that of solids.	
II. This is due to the fact that in the liquid state, particles move freely and have greater space betwee compared to particles in the solid state.	en each other as
A) Neither I nor II B) Both I and II C) Only I D) Only II	Correct Ans: B
Q7) Liquids flow and change shape, they are NOT rigid and thus they are also called as	
A) liquefied B) Mixtures C) fluid D) Solution	Correct Ans: C
Q8) How many horizontal rows are present in the modern periodic table? A) 7 B) 11 C) 5 D) 9	Correct Ans: A
Q9) How many vertical columns are present in the modern periodic table? A) 16 B) 14 C) 20 D) 18	Correct Ans: D
Q10) What is the other name for solid carbon dioxide?A) White ice B) Ice at room temperature C) Dry ice D) Freezed ice	Correct Ans: C
Q11) Mendeleev's Periodic Law was modified, and was adopted as the basis of the Modern	
A) Atomic mass B) Molar mass C) Atomic number D) Similar properties	Correct Ans: C
Q12) Elements in the Modern Periodic Table are arranged in vertical columns called groups and rows called periods.	horizontal
A) 18, 7 B) 16, 7 C) 18, 9 D) 16, 9	Correct Ans: A
Q13) How many elements are present in the first period of the periodic table? A) Five B) Three C) Four D) Two	Correct Ans: D
Q14) In the periodic table, which group consists of elements known as the noble gases? A) Group 17 B) Group 1 C) Group 18 D) Group 7	Correct Ans: C
Q15) Which element has the highest atomic number and is the heaviest naturally occurri A) Thorium (Th) B) Uranium (U) C) Plutonium (Pu) D) Neptunium (Np)	ng element? Correct Ans: B
Q16) In 1866, John Newlands, an English scientist, arranged the then known elements in the order ofas 'Newlands' Law of Octaves'.	It is known
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A) decreasing atomic masses B) decreasing atomic number C) increasing atomic mass	ses
D) increasing atomic number	
	Correct Ans: C
Q17) The Modern Periodic Table has 18 vertical columns known as 'groups' and horizontal 'periods'.	l rows known as
A) 7 B) 6 C) 8 D) 12	Correct Ans: A
Q18) Which of the following statement is 'true' for 'dobereiner's triads'?	
I. Triads were in order of atomic masses.	
II. Atomic mass of middle element was roughly the average of atomic masses of other	two elements.
A) Only II B) Neither I nor II C) Both I and II D) Only I	Correct Ans: C
Q19) of a substance is the temperature and pressure at which three phases (gas, liquid, and solid) may coexist in thermodynamic equilibrium.	of that substance
A) Tri-state B) Amphibious C) Triple-point D) Allotropic	Correct Ans: C
Q20) Philosophers classified matter in the form of how many basic elements?	
A) 6 B) 8 C) 4 D) 5	Correct Ans: D
Q21) Which physical law states that the pressure and temperature of a gas are inversely proportional, prov	vided the volume
A) Charles's law B) Boyle's law C) Gay-Lussac's law D) Avogadro's law	Correct Ans: B
Q22) At absolute zero (0 K or -273.15°C), the particles of matter:	
A) Vibrate in fixed positions B) Stop moving C) Move at the speed of light D) Under	rgo fusion
	Correct Ans: B
Q23) Non-metals, are electronegative. They tend to form bonds byelectrons.	
A) subtracting two B) gaining C) substituting D) losing	Correct Ans: B
Q24) When Mendeleev started his work, how many elements were known at that time?	
A) 36 B) 29 C) 47 D) 63	Correct Ans: D
Q25) Which chemical compound is used in car batteries and has the formula $PbSO_4$?	
A) Lead sulphide B) Lead oxide C) Lead sulfate D) Sulfuric acid	Correct Ans: C
Q26) is a form of matter in which many of the electrons wander around freely among the nuc	
A) Plasma B) Solid C) Liquid D) Gas	Correct Ans: A
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steam =/ carbon alonae (co2) =/ Hydrogen (H2) =/ chygen (c2)	al fluid state? prrect Ans: B
 Q28) In Charles Law: A) Pressure is kept constant B) Number of moles of gas is constant C) Volume is directly proportional to temperature A) Both A and C is true B) Both A and B is true C) A, B, C are true C) Only B and C is Co 	true prrect Ans: C
Q29) Which of the following elements is a part of the P block of the periodic table?A) SilverB) HydrogenC) OxygenD) Rhodium	orrect Ans: C
 Q30) Consider the following statements : A) A gas that follows Boyle's law, Charles' law and Avogadro law is called an ideal gas. B) As per Gay Lussac's law, at constant volume, pressure of a fixed amount of a gas varies direct temperature. C) Silicon is present in group 14 and period 3 of the periodic table. A) Both A and C is true B) A, B, C are true C) Only B and C is true D) Both A and B is Complexity of the periodic table. 	
Q31) Newlands law of octaves was only applicable upto which element? A) Ca B) Mg C) K D) Na	orrect Ans: A
Q32) Which of the following is NOT a p block element of the periodic table?A) Phosphorous B) Silicon C) Iodine D) MagnesiumCo	orrect Ans: D
Q33) Direct change of gas to solid without changing in to liquid is called A) Sublimation B) Vaporization C) Evaporation D) Deposition	orrect Ans: D
Q34) Which of the following is a 's' block element?A) VanadiumB) ScandiumC) TitaniumD) Rubidium	orrect Ans: D
Q35) How many triads were mentioned in Dobereiner's Triads?A) FourB) EightCo	orrect Ans: A
Q36) How many major theories have been established on the origin of iron in India? A) Two B) Three C) Five D) Four Co	orrect Ans: A

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 Q37) Consider the following statements: A) Calcium is present in S-block of the periodic table. B) Metals comprise more than 78% of all known elements and appear on the left side of the side of t	e Periodic Table.
C) d- Block elements are also known as inner-transition electrons.	C is true
A) Both A and B is true B) A, B, C are true C) Both A and C is true D) Only B and	C is true
	Correct Ans: A
Selection Post XII	
Q1) Which of the following bacteria grow in milk and convert it to curd?	
A) Salmonella typhi B) Salmonella lactae C) E. curdae D) Lactic acid bacteria	Correct Ans: D
Q2) Which metallic element is called 'ferromagnetic' because of its strong attraction?	
A) Gold B) Molybdenum C) Aluminium D) Iron	Correct Ans: D
Q3) Which is a colourless, odourless gas of the alkane series of hydrocarbons with a chemical formula	a of C ₃ H ₈ ?
A) Propane B) Pentane C) Ethane D) Butane	Correct Ans: A
Q4) Select the correct statement.	
A) The pyramid of energy is always upright. B) The pyramid of number is always upright.	
C) The pyramid of biomass is always inverted. D) The pyramid of mass is always upright.	Correct Ans: A
Q5) In ethylene (C_2H_4), hybridisation of carbon atoms is:	
A) sp^3d B) Sp C) sp^2 D) sp^3	Correct Ans: C
Q6) The likelihood of a neutral atom gaining an electron is known as:	
A) electron affinity B) electro positivity C) electronegativity D) electro attraction	Correct Ans: A
Q7) Which law was studied in the year 1787, in which it was said that as the volume of a gas increase	es its absolute
temperature, if its absolute temperature decreases, then its volume will decrease?	
A) Charles's law B) Dalton's law C) Boyle's law D) Avogadro's law	Correct Ans: A
Q8) Which metalloid in the carbon group is chemically similar to its group neighbours tin and silicon?	
A) Arsenic B) Flerovium C) Lead D) Germanium	Correct Ans: D
Q9) The dry cell is made up of an outer container that acts as the anode.	
A) lead B) nickel C) manganese D) zinc	Correct Ans: D
Q10) What is the name of the process of gases being outpoured from the interior of the solid earth?	
A) Gas evolution B) Transpiration C) Evaporation D) Degassing	Correct Ans: D
Q11) Which inert gas is used in double-glazed windows to fill the space between the panes?	
A) Xenon B) Helium C) Radon D) Argon	Correct Ans: D
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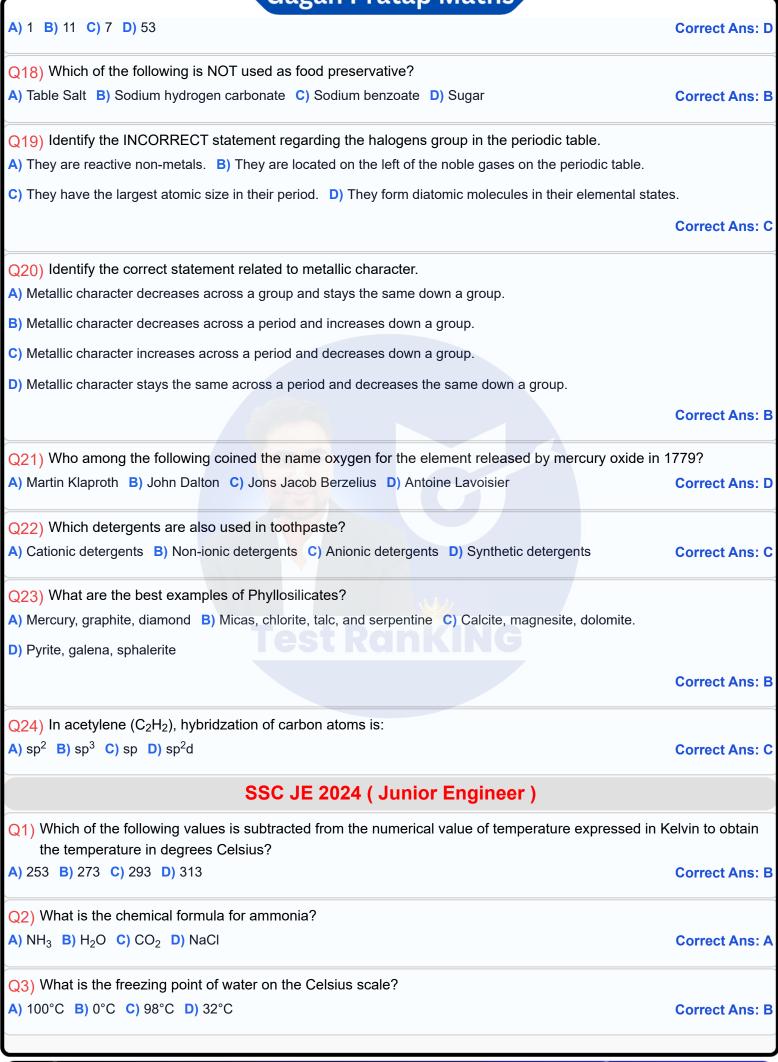
Q12) What is the adulterant of hot paprika? A) Chalk powder B) Saw dust C) Sudan dye D) Starch powder **Correct Ans: C** Q13) Which artificial element has been provisionally named seaborgium by American researchers in honour of Nobel Laureate Glenn T Seaborg? A) Element 103 B) Element 106 C) Element 90 D) Element 97 **Correct Ans: B** Q14) Which of the following statements best describes Le Chatelier's Principle? A. The law states that the total pressure of a mixture of gases is equal to the sum of the partial pressures of the individual gases. B. The principle states that the rate of a chemical reaction is directly proportional to the concentration of reactants. C. The principle states that a change in the variables that describe a system at equilibrium causes a shift of the equilibrium position to counteract the change. D. The law states that the volume of a gas is inversely proportional to its pressure at constant temperature. A) D B) B C) C D) A **Correct Ans: C** Q15) Who was recognised for his services in the discovery of inert gaseous elements in air and in the determination of their place in the periodic system? A) Lord Rayleigh B) Henry Cavendish C) Henry Miers D) Sir William Ramsay **Correct Ans: D** Q16) Which is the weakest intermolecular force, considered as the Van der Waals force, often found in halogens, noble gases and other non-polar molecules? A) Ion-dipole forces B) Dipole- induced dipole forces C) Dipole - dipole forces D) London dispersion forces Correct Ans: D Q17) The transfer of heat through horizontal movement of air is called A) conduction B) variation C) convection D) advection **Correct Ans: D** Q18) Technetium, the first artificially produced element used in many medical diagnostic imaging scans, is found in which group of the periodic table? A) Group 7 B) Group 19 C) Group 12 D) Group 14 **Correct Ans: A** Stenographer Grade C and D Examination 2024 Q1) Identify the odd option from among the following. A) Chlorine B) Fluorine C) Argon D) Bromine **Correct Ans: C** Q2) Which of the following is NOT a good conductor of electricity? A) Gold B) Aluminium C) Sulphur D) Silver **Correct Ans: C** Q3) What happens to the motion of the particles as temperature rises? A) The particles move faster B) The particles move in the same direction C) The particles stay stationery

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D) The particles slow down	
	Correct Ans: A
Q4) For which discovery in 1932 was James Chadwick best known?	
A) Thermal ionization B) Electron C) Wave theory of light D) Neutron	Correct Ans: D
Q5) The correct chemical formula of the compound Magnesium Hydroxide is:	
A) MgOH ₂ B) Mg(OH) C) Mg(OH) ₂ D) Mg ₂ (OH)	Correct Ans: C
Q6) Which of the following has the highest density?	
A) Liquid B) Plasma C) Solid D) Gas	Correct Ans: C
Q7) Identify the element with an electronic configuration 2,8,1 from among the following options.	
A) Magnesium B) Chlorine C) Hydrogen D) Sodium	Correct Ans: D
Q8) What is the name of the solution that is employed to identify the existence of starch in food?	
A) Ammonium chloride B) Chlorine solution C) lodine solution D) Copper sulphate solution	Correct Ans: C
Q9) The unit of density is:	
A) metre cubed B) metre squared C) kilogram metre per second D) kilogram per cubic metre	Correct Ans: D
Q10) Who arranged the 56 elements in an ascending order of their atomic mass and found that each 8th the same properties?	າ element had
	Correct Ans: B
Q11) Identify an element that does NOT belong to period 4.	
	Correct Ans: D
Q12) Who introduced the term 'triads' in the classification of elements?	
A) Dmitri Mendeleev B) Johann Dobereiner C) AEB de Chancourtois D) John Newlands	Correct Ans: B
Q13) Which of the following processes occurs during decomposition in soil?	
A) Defragmentation B) Humification C) Oxidation D) Crystallisation	Correct Ans: B
Q14) Who used the drawing circle and arrow symbols to represent the atoms of different elements in 18	03?
	Correct Ans: D
Q15) Which element is the first element in group 13 of the periodic table?	
A) Boron B) Gallium C) Indium D) Aluminium	Correct Ans: A
Q16) What food items are most commonly affected by the adulteration of Sudan dyes?	
A) Coffee powder B) Tea C) Hot paprika D) Coriander powder	Correct Ans: C
Q17) Identify the atomic number of an element that belongs to group 17.	
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 Q4) A man started working in a factory where he needed to deal with steam and boiling water regularly. O his doctor warned him to be more careful of the steam because burns caused by steam can be more that of hot water. What is the reason behind this? A) Steam cannot be seen B) Steam is odourless C) Steam has more latent heat of vaporisation 	-
D) Steam can remain stuck to the body	
	Correct Ans: C
Q5) Which food item has pH value between 2 and 3? This value makes it acidic.	
A) Blackberry juice B) Lemon juice C) Apple juice D) Tomato juice C	Correct Ans: B
Q6) The valency of Ca is 2 ⁺ . The valency of O is 2 ⁻ . What is the simplified chemical formula of Calcium ov	kide?
A) Ca_2O_2 B) CaO C) CaO_2 D) Ca_2O C	orrect Ans: B
Q7) Which of the following statements is correct?	
A) A neutron has no electrical charge. B) The central part of an atom contains only protons.	
C) The central part of an atom contains only neutrons. D) The central part of an atom contains only electrons.	
C	Correct Ans: A
(Q8) What is the name of the compound with the formula N ₂ O ₅ ?	
	Correct Ans: D
Q9) Why cannot we write the chemical formula of a compound formed by chlorine and sodium as CINa ins NaCl?	stead of
A) The rule is to write the name of the metal first. B) Both the formulas are correct.	
C) Chlorine is lighter, hence is written at the end. D) Chlorine is yellow in colour.	
Test RanKING a	Correct Ans: A
Q10) The particles that form the main part of the nucleus of an atom are together known as:	
A) isotopes B) ions C) nucleons D) electrons	Correct Ans: C
Q11) What is the chemical reaction that occurs when fats or oils combine with a strong alkali, such as sod	lium
hydroxide, to make soap? A) Saponification B) Combustion C) Fermentation D) Oxidation C)	Correct Ans: A
Q12) What is the most common factor for the yellowing of the Taj Mahal gradually over the years?	
A) Carbon monoxide present in air B) Marble turns yellow with time C) Marble reacts with nitrogen in air D) A	cid rain
C	Correct Ans: D
Q13) Since the attraction between molecules of gas is very low, what benefit do we get from this property A) Compressed and stored in smaller cylinders B) Burns easily C) Does not move from one place to another	of gas?
D) Does not change their shape easily	Correct Ans: A
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 Q14) Which of the following does NOT affect the changes in the states of matter? A) Changing the kinetic energy in the particles of the matter B) Changing the temperature of the matter C) Changing the pressure on the matter D) Changing the colour of the matter 	
A) A B) D C) B D) C	Correct Ans: B
Q15) Name a sublimable substance that can be converted into gas without passing through any intermo- phase.	ediate liquid
A) Naphthalene B) Chalk Powder C) Alum D) Rust	Correct Ans: A
Q16) Which white powder, ubiquitous in modern kitchens, combines with acid to produce carbon dioxide A) Sodium fluoride B) Sodium phosphate C) Sodium bicarbonate D) Sodium nitrate	e? Correct Ans: C
Q17) Calcium hydroxide is the chemical name of which of the following saturated aqueous solutions? A) Hard water B) Black Water C) Limewater D) Carbonated water	Correct Ans: C
Q18) If an atom has atomic number = 6 and number of neutrons = 10, then what is the atomic mass of A) 4 B) 16 C) 10 D) 6	the atom? Correct Ans: B
Q19) The process by which molecules from a region of higher concentration move to a region of lower of known as:	
A) evaporation B) boiling C) diffusion D) melting	Correct Ans: C
Q20) If the atomic mass of carbon is 12.011, that of hydrogen is 1.008 and that of oxygen is 15.999, the molecular mass of C ₂ H ₄ O.	en calculate the
A) 40.053 B) 34.053 C) 44.053 D) 16.053	Correct Ans: C
 Q21) Before starting a 5 day and 5 night excursion, Mr. Patel provided all his students with battery power He also gave them some extra batteries to use as spare. Then Mr. Patel asked them whether they batteries will produce electricity and help them. What do you think the correct answer to his quest A) Electricity is produced by the chemicals stored in the battery 	y know how the
B) Electricity is produced by friction between the battery and the flash light	
C) Electricity is saved in the battery from the factory that produces it	
D) Battery extracts electricity from the environment and passes it to the flash light	
	Correct Ans: A
Q22) The excess cadmium accumulation in our body, damages which part of the body? A) Hands and feet B) Eye C) Stomach D) Liver and kidneys	Correct Ans: D
Q23) Which of the following is a colourless liquid whose formula is CHCI ₃ which evaporates rapidly and	turns into gas?

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A) Chloroform B) Ammonia C) Ethanol D) Acetone	Correct Ans: A
 Q24) Which chemical compound is responsible for the spicy taste in chilli peppers? A) Capsaicin B) Caffeine C) Ethanol D) Tannin 	Correct Ans: A
Q25) Which of the following is the chemical formula of baking soda? A) Na ₂ CO ₃ .10H ₂ O B) NaOH C) CaOCl ₂ D) NaHCO ₃	Correct Ans: D
 Q26) What is the impact of ocean acidification on coral reefs and shell-forming organisms? A) Ocean acidification has no impact on coral reefs. B) Ocean acidification enhances coral growth. 	
C) Ocean acidification weakens coral skeletons and affects shell formation. D) Ocean acidification increases of	coral biodiversity.
	Correct Ans: C
 Q27) After realising the deadly effects of depleting the ozone layer, under which programme was the de ban the usage of CFC? A) United Nations Development Programme B) Natural State Environmental Programme C) United Nations Environment Programme D) Federal Energy Management Programme 	cision taken to
of onited Nations Environment Pogramme D) rederal Energy Management Programme	Correct Ans: C
Q28) Match the following. Image: Constraint of the second sec	
A) A-3, B-1, C-2 B) A-1, B-2, C-3 C) A-3, B-2, C-1 D) A-2, B-1, C-3	Correct Ans: B
 Q29) Brine water is saturated or strongly impregnated with which of the following ionic compounds? A) Sodium bromide B) Sodium chloride C) Sodium iodide D) Sodium hydroxide 	Correct Ans: B
Q30) Which is the correct formula to calculate the formula unit mass of a compound?A) Multiplication of all the atomic masses of all the atoms within the formula	
B) Summation of all the atomic weights of all the atoms within the formula	
C) Summation of all the atomic masses of all the atoms within the formula	
D) Multiplication of all the atomic weights of all the atoms within the formula	
	Correct Ans: C
Q31) Which chemical reaction occurs when you mix vinegar (acetic acid) and baking soda (sodium bica A) Oxidation B) Precipitation C) Neutralisation D) Combustion	arbonate)? Correct Ans: C
Q32) Which compound is used to neutralise fatty acids and convert them into salts in a process called s A) Sodium fluoride B) Sodium acetate C) Sodium chlorate D) Sodium hydroxide	aponification? Correct Ans: D
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Q33) Boron is the only metalloid of which group of the periodic table?	
A) Group 16 B) Group 10 C) Group 13 D) Group 5	Correct Ans: C
Q34) Most seawater has about how much salt in every 1,000 g (about a litre) of wate	er?
A) 100 g B) 200 g C) 15 g D) 35 g	Correct Ans: D
Q35) Which element is a transition metal in Group 9 of the periodic table?	
A) Cobalt (Co) B) Copper (Cu) C) Nickel (Ni) D) Iron (Fe)	Correct Ans: A
Q36) In which of the following groups of the periodic table is the metallic element 'silver' found?	
A) Group 15 B) Group 7 C) Group 3 D) Group 11	Correct Ans: D
Q37) If the meat is cooked above 140°C, which of the following reactions occurs?	
A) Caramelisation B) Maillard reaction C) Emulsification D) Oxidation reaction	Correct Ans: B
Q38) In which year did Louis Pasteur discover that yeast is responsible for producing alcohol from sugar	r?
A) 1830 B) 1857 C) 1891 D) 1904	Correct Ans: B
Q39) Olefiant gas belongs to which of the following functional groups?	
A) Alkynes B) Ketone C) Halo alkane D) Alkenes	Correct Ans: D
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Biology	
Combined Graduate Level Examination Tier I 2024	
Q1) Which of the following plants is used to cure cold and cough? A) Tulsi B) Babool C) Jamun D) Arjun	Correct Ans:
Q2) Which of the following is a man-made ecosystem? A) Aquarium B) Dessert C) Forest D) Grassland	Correct Ans:
 Q3) Which of the following is another name of vitamin C? A) Pyridoxine B) Pyridoxal C) Pyridoxamine D) Ascorbic acid 	Correct Ans:
Q4) Which of the following pairs is INCORRECTLY matched? A) Nucleus: Lipid metabolism B) Lysosomes: Suicidal bags C) Mitochondria: Power house of the ce	11
D) Ribosomes: Protein factory	Correct Ans:
A) d B) b C) c D) a	Correct Ans:
Q6) Which condition, also known as icterus, causes a yellowing of your skin and the whites of yo A) Ichthyosis B) Jaundice C) Eczema D) Pemphigus	our eyes? Correct Ans:
Q7) Which branch of ecology deals with the characteristics of ancient environment and their relaping plants and animals?	ationship with ancient
A) Demecology B) Ichthyology C) Paleoecology D) Mycology	Correct Ans:
Q8) Digestion of food is an important function of the animal body. In animals like lions, cows, hu involves use of various organs starting from the mouth and ending with the anus. The longe known as the .	•
A) stomach B) large intestine C) oesophagus D) small intestine	Correct Ans:
Q9) Which organisms are classified as Aves? A) Fishes B) Frogs C) Snakes D) Birds	Correct Ans:
Q10) Microbes like Rhizobium, Nitrosomonas and Nitrobacter are used for:	Correct Ans:

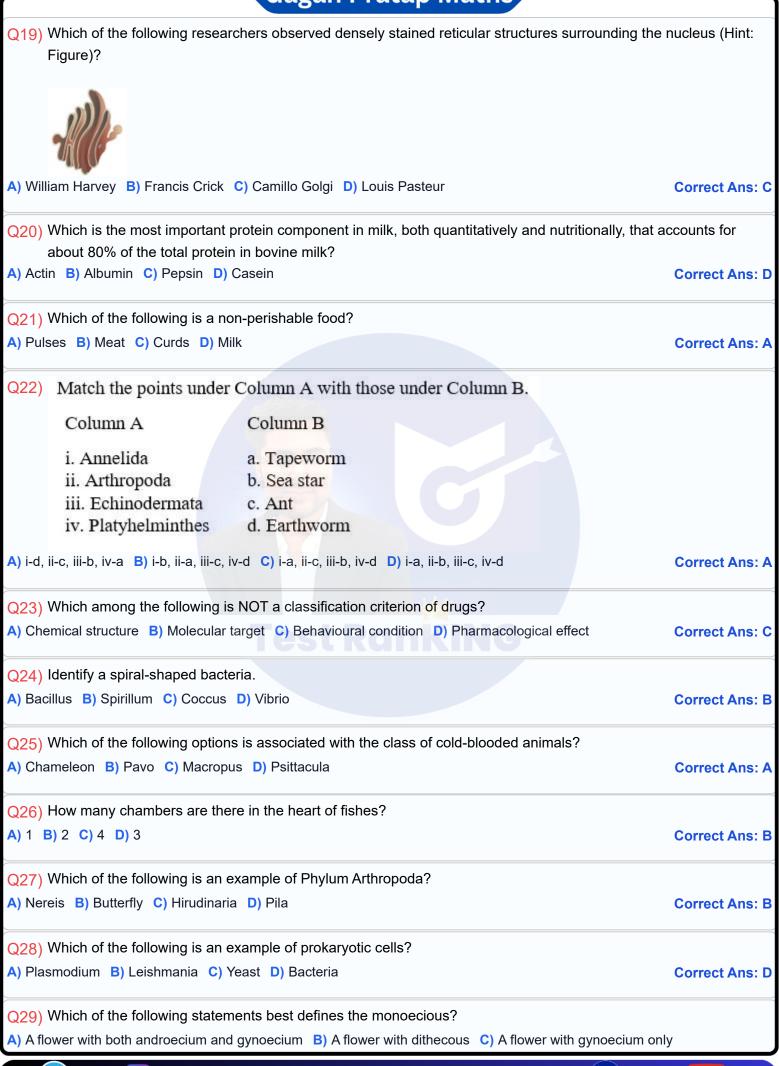
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Q11) Match the	terms in column	A with their respective properties in column B.	
	Column-A i. Glucose	Column-B a. Intermediate substance in breakdown of glucose	
	ii. Yeast	b. Glucose is converted into pyruvic acid	
	iii. Glycolysis	c. Uses nutrients for fermentation process	
	iv. Pyruvic acid	d. Best organic substrate for respiration	
A) i-b, ii-a, iii-d, iv-c	B) i-d, ii-c, iii-b, iv-a	a C) i-a, ii-b, iii-c, iv-d D) i-b, ii-d, iii-a, iv-c	Correct Ans: B
	-	umans happens in the kidneys. There is a large number o in doing this job. These filtration units are called:	f filtration units present
A) Bowman's capsu	lles B) nephrons C	c) capillaries D) alveoli	Correct Ans: B
Q13) Which set of	diseases are caus	ed by bacteria?	
A) Influenza, Dengu	ie, Cholera B) Typh	noid, Cholera, Tuberculosis C) Dengue, Malaria, Cholera	
D) Malaria, Commo	n cold, Influenza		
			Correct Ans: B
/	• .	NCORRECTLY matched?. C) Fructose: Grapes D) Maltose: Wheat, cornmeal and barley	y Correct Ans: B
Q15) Match the	e points under C	olumn A with those under Column B.	
Column	A (Disease)	Column B (Organism Responsible)	
i. Malari ii. Diarrl	59	a. Vibrio b. Salmonella	
iii. Typh		c. Rotavirus	
iv. Chole		d. Plasmodium	
A) i-b, ii-a, iii-c, iv-d	B) i-d, ii-c, iii-b, iv-a	a C) i-a, ii-c, iii-b, iv-d D) i-a, ii-b, iii-c, iv-d	Correct Ans: B
Q16) Which of the	following is NOT a	a component of a flower?	
A) Androecium B)	Corolla C) Spines	D) Calyx	Correct Ans: C
Q17) Which acid i for seasonin	-	g agent added to vinegar, pickled vegetables, and sauces,	and as a raw material
A) Citric acid B) Ad	cetic acid C) Tartari	c acid D) Formic acid	Correct Ans: B
Q18) Which of the	following is a char	acteristic of both mammals and birds?	
A) Viviparity B) Pig	mented skin C) Pn	eumatic bones D) Warm blooded	Correct Ans: D

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D) A flower with androecium only **Correct Ans: A** Q30) Which of the following characteristics is NOT of Aves? A) They have four-chambered heart. B) They give birth to live young ones with some exceptions those lay eggs. **C)** These are warm-blooded animals. **D)** They breathe through the lungs **Correct Ans: B** Q31) What is the other name of tetanus caused by toxin producing bacteria called clostridium tetani? A) Lockjaw B) Snap jaw C) Cleft jaw D) Broken jaw **Correct Ans: A** Q32) What are the five Fs of indirect transmission? A) Flies, fingers, fomites, food and fluid B) Fruit, fingers, flu, food and fluid C) Flies, fingers, friends, food and fruit D) Flies, fingers, fomites, food and fruit **Correct Ans: A** Q33) By which of the following methods do red algae reproduce? A) Grafting B) Cutting C) Micropropagation D) Fragmentation **Correct Ans: D** Q34) Name a common electrolyte disorder that occurs when the amount of sodium in your blood becomes abnormally low. A) Hyperkalemia B) Hypokalemia C) Hyponatremia D) Hypernatremia **Correct Ans: C** Q35) Which is a serious contagious bacterial infection that usually affects the mucous membranes of the nose and throat? A) Meningococcal B) Diphtheria C) Shigellosis D) Chlamydia **Correct Ans: B** Q36) The organisms that do not have a defined nucleus or organelles are classified in to Kingdom. A) Fungi B) Protista C) Monera D) Plantae **Correct Ans: C** (Q37) Which cell organelle is defined as the small round organelle that undergoes oxidation reaction to produce hydrogen peroxide? A) Centrosome B) Vacuole C) Nucleus D) Peroxisomes Correct Ans: D (Q38) Who published Systema Naturae in 1735 classifying the three kingdoms of nature and outlining the sexual system for the classification of plants? A) Carl Woese B) Robert Whittaker C) Ernst Haeckel D) Carolus Linnaeus **Correct Ans: D** Q39) Which of the following illustrations is related to chloroplasts?



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a b c c d	Nucleus
A) a B) c C) d D) b	Correct Ans: B
Q40) Which of the following does NOT belong to the category of Porifera? A) Hydra B) Sycon C) Spongilla D) Euplectella	Correct Ans: A
Q41) Which of the following classes includes the family of turtles? A) Chondrichthyes B) Reptilia C) Amphibia D) Aves	Correct Ans: B
Q42) What is the reason for the similar size of the vascular bundle in monocot leaves? A) Cubical venation B) Radial venation C) Rectangular venation D) Parallel venation	Correct Ans: D
Q43) Which of the following is an inactivated (killed) polio vaccine developed in 1952? A) Salk vaccine B) Imvanex vaccine C) HDCV vaccine D) TAB vaccine	Correct Ans: A
Q44) Which of the following is responsible for the red colour of beetroot? A) Curcumin B) Betanin C) Beta carotene D) Lycopene	Correct Ans: B
Q45) What is the name of the inflammatory condition that causes cracks, crusting and scaling mouth due to vitamin B2 deficiency?	g at the corners of the
A) Cheilosis B) Psoriasis C) Urticaria D) Atopic dermatitis	Correct Ans: A
Q46) Which of the following options indicates the size of PPLO (Pleuro Pneumonia Like Orga A) About 30 μm B) About 20 μm C) About 0.1 μm D) About 10 μm	anisms)? Correct Ans: C
Q47) Which essential amino acid enhances calcium absorption and also plays an important ro	ole in the formation of
collagen? A) Arginine B) Tyrosine C) Lysine D) Histidine	Correct Ans: C
Q48) Which of the following is related to neem?	
A) Tendril B) Palmately C) Pinnately D) Spines	Correct Ans: C
Q49) Which of the following pairs is INCORRECT regarding the grade of organisation and its A) Cellular grade organisation - Sycon B) Protoplasmic grade organisation - Paramecium	example?
C) Cell-tissue grade organisation - Jellyfish D) Tissue-organ grade organisation - Euplectella	Correct Ans: D
Q50) Which of the following is the best definition of ecological efficiency?	
A) The amount of energy utilised at different trophic levels in a food chainB) The amount of energy stored at different trophic levels in a food chain	

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C) The ratio between the mass and the energy flow at different trophic levels in a food chain	
D) The ratio between energy flows at different points in a food chain	
	Correct Ans: D
Q51) In the context of cell division, which chromosomal behaviour takes place at the leptotene stage?	
A) Chromosomes are un-synapsed B) Synapsis is complete C) Homologous chromosomes pair	
D) Chromosomes begin to condense	
	Correct Ans: D
Q52) What do we mean by Allen's rule?	
A) Mammals from colder climates generally have shorter ears and limbs to minimise heat loss.	
B) Desert lizards lack the physiological ability that mammals have to deal with the high temperatures of their had	bitat.
C) Some plants have no leaves – they are reduced to spines – and the photosynthetic function is taken over by stems.	the flattened
The body compensates low oxygen availability by increasing red blood cell production, decreasing the bindin haemoglobin and by increasing the breathing rate.	g affinity of
	Correct Ans: A
Q53) Which law states that endothermic animals from cold climates have smaller extremities or appenda	ges than
closely related species from warm climates?	
A) Harper's rule B) Reich's rule C) Allen's rule D) Moller's rule	Correct Ans: C
Q54) Which marine carotenoid is abundant in brown seaweed, macroalgae and diatoms?	
A) Fucoxanthin B) Astaxanthin C) Neoxanthin D) β-cryptoxanthin	Correct Ans: A
Q55) Which of the following categories does Gonyaulax belong to?	
	Correct Ans: D
Q56) Which of the following is NOT a member of the Aves (birds) class?	Compost Amon C
A) Psittacula B) Neophron C) Pteropus D) Struthio	Correct Ans: C
Q57) In the year 1925, who extracted lipids from an erythrocyte sample and found that lipid monolayers a	are good for
measuring molecular surface area versus lateral pressure?	0 A A
A) Gorter and Grendel B) Carson and Eccles C) Avery and Buck D) Margulis and Ruska	Correct Ans: A
Q58) Match the points under Column A with those under Column B.	
Column A (Subphylum) Column B (Animal)	
i. Hexapoda a. Daphnia	
ii. Crustacea b. Mosquito	
iii. Myriapoda c. Limulus	
iv. Chelicerata d. Julus	
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A) i-b, ii-c, iii-a, iv-d B) i-a, ii-b, iii-c, iv-d C) i-d, ii-c, iii-b, iv-a D) i-b, ii-a, iii-d, iv-c	Correct Ans: D
Q59) Which types of gametes are found in Spirogyra?	
A) Isogamous and flagellated B) Heterogamous and non-flagellated C) Heterogamous and flagellated	
D) Isogamous and non-flagellated	
	Correct Ans: D
Q60) What kind of phyllotaxy was examined in the Guava plant?	
A) Superimposed B) Whorled C) Alternate D) Opposite	Correct Ans: D
Q61) The growth form of a plant, comprising its size, shape and orientation is known as:	
A) habit B) environment C) habitat D) growth pattern	Correct Ans: A
CHSL Exam 2024 Tier I	
Q1) What is the main sense organ that virtual reality displays are aiming for?	
A) Smell B) Taste C) Vision D) Touch	Correct Ans: C
Q2) Which of the following is a food-borne disease caused by the consumption of contaminated food or	beverages?
A) Malaria B) Tuberculosis C) Chicken pox D) Cholera	Correct Ans: D
Q3) How do the muscle cells help in movement?	
A) The lining of the vessels inside help in movement. B) The contraction and relaxation of these cells result in	n movement.
C) The blood flow of the cells helps in movement. D) The thickness of the cell layer helps in movement.	
	Correct Ans: B
Q4) Which group of animals has a segmented spinal column together with a few primitive forms in whic is represented by a notochord?	h the backbone
A) Arthropoda B) Echinodermata C) Mollusca D) Vertebrata	Correct Ans: D
Q5) Who developed the technique of preserving the quality of food by raising its temperature to prevent growth in the food?	microbial
A) Robert Koch B) Antonie van Leeuwenhoek C) Louis Pasteur D) Joseph Lister	Correct Ans: C
Q6) Which of the following is NOT a mutation-based disease?	
A) Sickle cell anaemia B) Malaria C) Phenylketonuria D) Down syndrome	Correct Ans: B
Q7) Identify the INCORRECT statement regarding invertebrates from the options given below.	
A) They have open circulatory system as there is no organisation in the distribution.	
B) They have radial or bilateral body symmetry.	
C) They have a pair of solid nerve cords, situated ventrally and bearing segmentally arranged ganglia.	
D) They possess a backbone and an internal skeleton.	
	Correct Ans: D

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(Q8) The cell wall of bacteria is made up of: A) peptidoglycan B) cellulose C) glycogen D) peptone **Correct Ans: A** Q9) Which of the following sequences is correct, according to taxonomy? A) Class-Phylum-Family-Order Genus-Species B) Family-Phylum-Class-Order-Genus-Species C) Phylum-Class-Order-Family-Genus-Species D) Class-Phylum-Order-Family-Genus-Species **Correct Ans: C** Q10) The loss of water in the form of water droplets from leaves of plants is called A) Pressure gradient B) Guttation C) Translocation D) Plasmolysis **Correct Ans: B** Q11) What do you mean by semiconservative DNA replication? A) After the completion of replication, each DNA molecule would have two parental and two newly synthesised strand. B) RNA is dependent on DNA for the synthesis of proteins C) DNA is dependent on RNA for the synthesis of proteins D) After the completion of replication, each DNA molecule would have one parental and one newly synthesised strand. Correct Ans: D (012) Which of the following statements about eutrophication is correct? A) It happens when too much carbon enriches the water, causing excessive growth of bacteria and reduced growth of plants. B) It happens when too less nitrogen is present in the water, causing reduced growth of plants and algae. C) It is a beneficial process for environment restoration. D) It happens when too much nitrogen enriches the water, causing excessive growth of plants and algae. **Correct Ans: D** (Q13) In which year did Wilhelm Johannsen coin the term 'gene' to describe the Mendelian units of heredity? A) 1909 B) 1900 C) 1920 D) 1910 **Correct Ans: A** Q14) Which of the following is a rare group of genetic disorders caused by mutations of certain genes affecting the colour (pigmentation) of the skin, hair and eyes? A) Alkaptonuria B) Alagille syndrome C) Albinism D) Angelman syndrome **Correct Ans: C** Q15) In which of the following plants do roots arise from parts of a plant other than the radicle? A) Monstera B) Turnip C) Mustard plant D) Maize **Correct Ans: A** Q16) Which of the following animals can change their gender during their life span? A) Ascaris B) Humans C) nereis D) Snail **Correct Ans: D** Q17) Mendel proposed the law of independent assortment on the basis of A) genes B) dihybrid crosses C) alleles D) Monohybrid crosses **Correct Ans: B** Q18) Which of the following muscles regulates the exit of food from the stomach into the small intestine? A) Gastrocnemius B) Pectoralis C) Rectus D) Sphincter Correct Ans: D

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010	Which of the following statements most accurate	ly describes the Cyclostemate group?
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A) They are ectothermic animals having mucus glands in the skin, and a three-chambered heart.

B) They are warm-blooded, oviparous, bipedal, feathered, winged and toothless vertebrates.

C) They are characterised by having an elongated eel-like body, circular mouth, slimy skin and are scaleless.

D) Their skin is covered with scales/plates and their hearts have only two chambers.

Correct Ans: C

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Q20) In honey bees,	
A) males are triploid and females are tetraploid. B) males are haploid and females are diploid.	
C) males are diploid and females are haploid. D) males are tetraploid and females are triploid.	
	Correct Ans: B
Q21) In a dihybrid cross between two heterozygous fruit flies with brown bodies and red eyes (BbEe 2 be the probability of getting BBEE genotype?	X BbEe), what will
A) 1/16 B) 1/4 C) 1/8 D) 1/2	Correct Ans: A
Q22) Which of the following enzymes are essential of DNA replication in an animal cell? A) Reverse transcriptase, DNA polymerase, DNA primase B) Topoisomerase, DNA ligase, DNA polymeras	e, DNA primase
C) Reverse transcriptase, RNA polymerase, Ligase D) Reverse transcriptase, DNA polymerase, Ligase	
	Correct Ans: B
Q23) Which of the following is a medium-sized globular protein that acts as a pancreatic serine protein digestive system of many vertebrates?	ase found in the
A) Amylase B) Lipase C) Trypsin D) Pepsin	Correct Ans: C
Q24) In a symport:	
A) a molecule moves across a membrane independent of other molecules	
B) both molecules cross the membrane in the same direction C) both molecules cross the membrane in the	e opposite direction
D) a molecule moves across a membrane dependent of other molecules	
	Correct Ans: B
Q25) Which of the Mendel's laws states that a diploid organism passes a randomly selected allele for offspring, such that the offspring inherit one allele from each parent?	a trait to its
A) Law of dominance B) Law of paired factor C) Law of independent assortment D) Law of segregation	Correct Ans: D
Q26) Which of the following is a part of apical meristem found in roots.	
A) Protoderm B) Leaf primordium C) Differentiating vascular tissue D) Axillary bud	Correct Ans: A
Q27) Which of the following causes enlargement and extension growth of cells?	
A) Imbibition B) Pressure potential C) Osmotic pressure D) Turgor pressure	Correct Ans: D

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Q28) The phenomenon of the interaction between nonallelic the phenotypic expression of another gene, is known	-	sulting in one gene masking
A) linkage B) complete inheritance C) epistasis D) incomplet		Correct Ans: C
Q29) Who was the first person to conduct a systematic stuc mitosis?	y of chromosomes during div	ision and called this process
A) Friedrich Miescher B) Thomas Hunt Morgan C) Antonie va	n Leeuwenhoek D) Walther Fl	emming Correct Ans: D
Q30) In which year did a trio of scientists, Avery, MacLeod a have DNA as their genetic material?	and McCarty, prove that excep	ot viruses, all living organisms
A) 1918 B) 1902 C) 1944 D) 1961		Correct Ans: C
Q31) In the context of DNA, which of the following principlesA) The transforming principle B) The principle of complementation		
D) The principle of inheritance		
		Correct Ans: B
MTS Non Tech Havaldar CBI	and CBN Examinat	ion 2024
Q1) Which virus is responsible for causing AIDS?		
A) Human papillomavirus (HPV) B) Herpes simplex virus (HSV) C) Human immunodeficiency	y virus (HIV) D) Influenza virus
		Correct Ans: C
Q2) Vitamin D is synthesised using sunshine, by the:		
A) skin B) blood veins C) leg D) mouth		Correct Ans: A
Q3) To remain healthy and disease free, taking a balanced	diet is very important. A balan	ced diet is:
A) a diet that contains adequate amount of protein and fat		
B) a diet that contains sufficient amount of all the nutrients that	he human body needs to grow	properly
C) a diet that contains adequate amount of carbohydrates D) a	diet that contains appreciable r	number of vitamins and minerals
		Correct Ans: B
Q4) What is the primary source of energy for most ecosyste	ms on Earth?	
A) Tidal energy B) Wind C) Geothermal heat D) Sunlight		Correct Ans: D
Q5) A little child is a very picky eater and hates drinking mill	-	-
permanent teeth took a very long time to come up in its A) Protein Deficiency B) Vitamin Deficiency C) Calcium Defici		
	ency D Sugar Denoising	Correct Ans: C
Q6) Match the columns.		

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Column-A(Nutrients)Column-B(Source)i.Protein rich dieta.ii.Fat rich dietb.iii.Fat rich dietb.iii.Carbohydrate rich dietc.iv.Vitamin C rich dietd.B) i-d, ii-d, iii-b, iv-aB) i-c, ii-a, iii-b, iv-dC) i-d, ii-d, iii-b, iv-aD) i-c, ii-d, iii-a, iv-b	Correct Ans: D
Q7) Which of the following options represents the correct flow of energy in an ecosystem?	
A) Sunlight \rightarrow Producers \rightarrow Herbivores \rightarrow Carnivores B) Sunlight \rightarrow Herbivores \rightarrow Carnivores \rightarrow Producers	
C) Sunlight \rightarrow Herbivores \rightarrow Producers \rightarrow Carnivore D) Sunlight \rightarrow Carnivores \rightarrow Producers \rightarrow Herbivores	
	Correct Ans: A
Q8) For most of the ecosystem, what is the primary source of energy?	
A) Sunlight B) Wind C) Water D) Geothermal energy	Correct Ans: A
Q9) If after being bitten by a mosquito, the person is detected as being malaria positive, which of the fol true?	lowing will hold
A. The person did not have a balanced diet. B. The mosquito was carrying plasmodium.	
C. The mosquito was suffering from malaria. D. The person was not vaccinated as a child.	
A) B B) D C) A D) C	Correct Ans: A
Q10) A child is a picky eater. He does not consume milk at all and barely eats other kinds of food. When losing his baby teeth, they were not getting replaced with new teeth. This can be solved by giving	
A) calcium supplements B) vitamin C C) carbohydrate-rich food D) vitamin B complex	Correct Ans: A
Q11) The major carbohydrate of milk is	
A) lactose B) starch C) Fructose D) maltose	Correct Ans: A
Q12) Constipation could be a sign that the person in suffering from a lack of	
A) Dietary Fibre B) Protein C) Vitamin D) Calcium	Correct Ans: A
Q13) Which of the following vitamins includes cobalt as an essential component?	
A) Vitamin D B) Vitamin E C) Vitamin B12 D) Vitamin A	Correct Ans: C
Q14) A person with a very low count of red blood cells is medically known to have	
A) Anaemia B) Scurvy C) Goitre D) Jaundice	Correct Ans: A
Q15) Which of the following organisms is used in bread and alcohol industries?	
A) Clostridium B) Penicillium C) Nitrobacter D) Yeast	Correct Ans: D
Q16) Which of the following options is an example of a decomposer in an ecosystem?	

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A) Producer B) Fungus C) Carnivore D) Herbivore		Correct Ans: B
Q17) Which of the following options correctly matches Column-A (Name of Vitamin)	column-A with column-B? Column-B (Deficiency Disease	(c)
i. Vitamin A	a. Scurvy	5)
ii. Vitamin D	b. Beriberi	
iii. Vitamin B1	c. Rickets	
iv. Vitamin C	d. Night Blindness	
A) i-c, ii-d, iii-a, iv-b B) i-d, ii-c, iii-b, iv-a C) i-d, ii-c, iii-a,	iv-b D) i-c, ii-d, iii-b, iv-a	Correct Ans: B
Q18) Which of the following are building blocks of prot	teins?	
A) Amino acids B) Cells C) Bases D) Acids		Correct Ans: A
Q19) To get relief from constipation, which of the follow	wing is prescribed to be eaten in la	-
A) Protein B) Fish C) Meat D) Fibre		Correct Ans: D
Q20) Which part of a flower develops into a seed?		
A) Petal B) Stamen C) Ovule D) Pistil		Correct Ans: C
		Concer Ans. C
Q21) Which structure within the nucleus contains gen	etic information in the form of DNA	?
A) Vacuole B) Nucleolus C) Ribosome D) Chromosom	e	Correct Ans: D
Q22) A coastal area was flooded with sea water and r		•
days, it was observed that many plants died. Ba	sed on these statements, which of	the following is the most
probable cause of the plant deaths?		
A. Plants died due to infection from sea water bo	orne derms	
B. Plants died due to absence of sunlight.	ome germs.	
C. Plants died due to plasmolysis in the plant ce	lls.	
D. Plants died because they were eaten by sea	organisms.	
A) C B) B C) D D) A		Correct Ans: A
Q23) What is the study of the interactions between livi	ing organisms and their environme	nt called?
A) Biology B) Ecology C) Geology D) Chemistry		Correct Ans: B
Q24) Which food is a good source of complete protein	1?	
A) Lentils B) Eggs C) Spinach D) Rice		Correct Ans: B
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Q25) To which of the following groups do whales belong?	
A) Mammalia B) Pisces C) Amphibia D) Arthropoda	Correct Ans: A
Q26) Foods containing fats and carbohydrates are also called	
A) fermented foods B) energy giving foods C) roughage D) body building foods	Correct Ans: B
Q27) Excessive bleeding from wounds may happen due to lack of	
A) Vitamin K B) Vitamin E C) Vitamin A D) Vitamin B12	Correct Ans: A
Q28) A disease like COVID-19 is a kind of:	
A) Protein Deficiency disease B) Waterborne disease C) Zoonotic disease D) Foodborne disease	Correct Ans: C
Q29) What is the primary function of the excretory system in animals?	
A) Removal of waste products B) Respiration C) Reproduction D) Digestion	Correct Ans: A
Q30) Epilepsy is a disorder that affects which of the following parts of the human body?	
A) The skin B) The teeth and bones C) Brain cells D) The muscles	Correct Ans: C
Q31) Which of the following is the role of fibre in the diet?	
A) Regulating body temperature B) Enhancing taste of food C) Providing quick energy	
D) Promoting digestion and bowel regularity	
	Correct Ans: D
Q32) A person having stunted growth and discoloured hair is most probably suffering from	<u>.</u>
A) Lipid Deficiency B) Protein Deficiency C) Glucose Deficiency D) Vitamin A Deficiency	Correct Ans: B
Q33) Which of the following statements are correct about Ribosomes?	
Statement A: Ribosomes have no membrane.	
Statement B: Digestive hydrolytic enzymes are present in Ribosomes.	
Statement C: These are called suicidal bags.	
Statement D: Ribosomes play an important role in protein synthesis.	
A) Only statements A and D B) Only statements A, B and C C) Only statements A and B D) Only statement	ts A and C
	Correct Ans: A
Q34) Which of the given options is rod-shaped, carries genetic information, is visible only at cell divisio in the nucleus?	n and is present
A) Ribosomes B) Chromosomes C) Lysosomes D) Cytoplasm	Correct Ans: B
Q35) Analgesic medicines are used for	
A) reducing pain and in fever B) supporting physiological functions C) killing or weakening microbes and inf	ections
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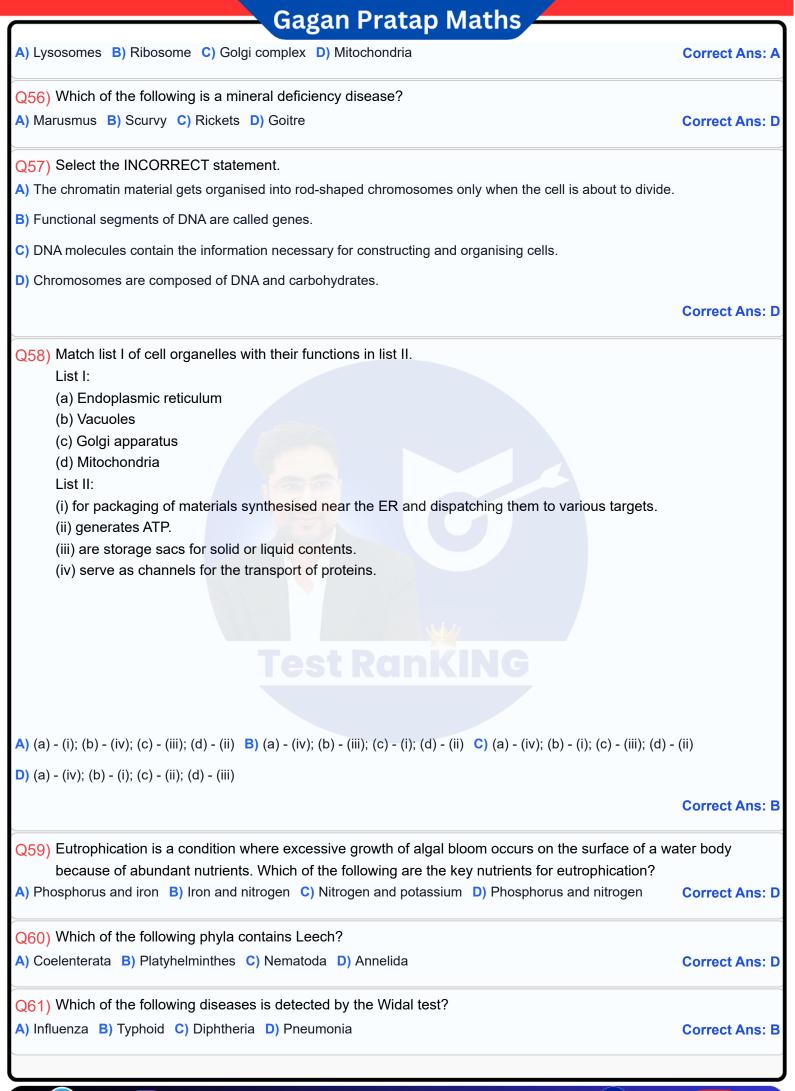
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D) correcting deficiencies due to vitamins and nutrients	
	Correct Ans: A
Q36) When the body is deprived of energy from food, which of the following tissues is used to feed	d on its own?
A) Adipose tissue B) Collenchyma tissue C) Epithelial tissue D) Nervous tissue	Correct Ans: A
Q37) Chili peppers produce a burning sensation in any tissue with which they come into contact. V responsible for this?	Vhat is the compound
A) Acetic acid B) Capsaicin C) Lycopene D) Formic acid	Correct Ans: B
Q38) If the body of an animal can be divided into two indistinguishable left and right halves through then it possesses:	ו only one plane,
A) radial symmetry B) centre of symmetry C) asymmetricity D) bilateral symmetry	Correct Ans: D
Q39) Which of the following possesses the largest isolated single cell?	
A) Human brain B) Amoeba C) Blue whale D) Ostrich egg	Correct Ans: D
Q40) The percentage of pore space between the particles inside a rock or soil is called:	
A) Permeability B) Salinity C) Density D) Porosity	Correct Ans: D
Q41) In the case of reptiles, their heart is not properly divided in to four chambers i.e., it consists o incompletely divided ventricle. Whi <mark>ch of the</mark> following is an example of a reptile having a four	
A) Lizard B) Snake C) Crocodile D) Turtles	Correct Ans: C
Q42) All living organisms on the Earth are made up of carbon compounds. Many years ago, dead started slowly modifying into coal under high temperature and high pressure. This process is	
A) carbonization B) composting C) black gold formation D) peat formation	Correct Ans: A
Q43) Which of the following communicable diseases is caused by bacteria?	
A) Influenza B) Malaria C) Dengue D) Cholera	Correct Ans: D
Q44) The red colour of tomatoes is due to the presence of:	
A) lycopene B) alizarin C) limonene D) beta carotene	Correct Ans: A
Q45) The transportation mechanism in cells by which food or other useful molecules from the outs the cell is known as	ide are carried inside
A) Endocytosis B) Osmosis C) Fusion D) Exocytosis	Correct Ans: A
Q46) Which of the following options correctly matches column-A and column-B?	
Column-A (Food component) Column-B (Enzyme involved in digestion)	
i. Protein a. Amylase ii. Carbohydrates b. Lipase	
iii. Fats c. Trypsin	
A) is is in the size is a size in the size is a size b.	Corroct Ape: D

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Q47) What solution should be used to test for the	e presence of starch in food?				
A) Talc solution B) Ethylene glycol – water solution		Correct Ans: C			
Q48) The Krebs cycle of aerobic respiration is ca	rried out within which of the following cell organelles?				
A) Lysosome B) Nucleus C) Mitochondria D) Spir	rogyra	Correct Ans: C			
Q49) The microscopic channels, which traverse t communication between them is called:	the cell walls of plant cells and some algal cells, enabli	ng transport and			
A) ribosomes B) plasmodesmata C) lysosomes D) desmosomes	Correct Ans: B			
Q50) Which specific chemical can be applied to a	achieve staining of chromosomes?				
A) Acetocarmine B) Methanol C) Hydrochloric acid	-	Correct Ans: A			
Q51) Which of the following options correctly ma	tches Column-A with Column-B?				
Column-A (Cell organelles) i. Cell membrane	Column-B (Function) a. Protein synthesis				
ii. Smooth Endoplasmic Reticulum	 b. Important site of formation of glycoproteins and glycolipids 				
iii. Golgi apparatus iv. Ribosomes	c. Synthesis of lipid d. Transport of the molecules				
A) i-c, ii-a, iii-d, iv-b B) i-d, ii-c, iii-b, iv-a C) i-c, ii-d,	iii-a, iv-b D) i-c, ii-d, iii-b, iv-a	Correct Ans: B			
Q52) Which of the following statements about pte	eridophytes are correct?				
Statements: A. They include horsetails and ferns.					
	B. Pteridophytes are used for medicinal purposes and as soil-binders.				
C. They are very advanced type of plants on earth, which evolved very recently.					
D. Evolutionarily, they are the first terrestrial pl	ants to possess vascular tissues – xylem and phloem.				
A) Only A, B and D B) Only A, B and C C) Only C	and D D) Only A and C	Correct Ans: A			
 Q53) When protein-rich gelatinous egg white is h A) Fermentation B) Protein Denaturation C) Gluter 		Correct Ans: B			
Q54) Match the columns.					
Column A (Plant Group)	Column B (Example)				
i. Bryophyta	a. Rose				
ii. Pteridophyta	b. Pine				
iii. Gymnosperms	c. Mosses				
iv. Angiosperms	d. Selaginella				
A) i-d, ii-c, iii-b, iv-a B) i-c, ii-d, iii-b, iv-a C) i-c, ii-a,	iii-b, iv-d D) i-c, ii-d, iii-a, iv-b	Correct Ans: B			
Q55) Several biological processes are catalysed	by enzymes. Digestive enzymes are present in which	part of the cell?			
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Q62) If the Glycemic Index (GI) of a specific food is from 70 to 100, then the type of that food is: A) Low-GI food B) Medium-GI food C) Extremely low-GI food D) High-GI food	Correct Ans: D
Q63) What is the primary function of the notochord in chordates?	
A) Locomotion B) Digestion C) Support D) Respiration	Correct Ans: C
 Q64) Which of the following statements about phylum Arthropoda are correct? A. Animals of Arthropoda have joint appendages. B. They have compounds eyes. 	
C. These make up the majority of all animals on earth. D. The mode of reproduction in all Arthropods is vegetative.	
A) Only A, B and C B) Only B, C and D C) Only A and C D) Only C and D	Correct Ans: A
Q65) A tunnel that runs through the cell wall between two plant cells is known as:	
A) peroxisome B) plasmodesmata C) protoplasm D) ribosome	Correct Ans: B
Q66) It is observed that a child's heart rate is 135 times per minute. The beat frequency of heart is A) 8100 Hz B) 1.12 Hz C) 135 Hz D) 2.25 Hz	Correct Ans: D
Q67) Which of the following characteristics was used by Aristotle to classify animals? A) Specialised organs B) Types of body cells C) Habitat D) Photosynthesis	Correct Ans: C
Q68) In a food chain of Algae-Shrimp-Fish-Bird, if the energy available at the bird is 4 kJ, then the energy	rgy available at
the shrimp is: A) 4 kJ B) 4000 kJ C) 400 kJ D) 0.04 kJ	Correct Ans: C
Q69) Pellagra is a deficiency disease that usually occurs due to lack of which of the following nutrients	s?
A) Niacin B) Vitamin E C) Iodine D) Riboflavin	Correct Ans: A
Q70) Which of the following can be a basis of difference between a salamander and a house-wall lizar habitat?	rd apart from their
A) Scales on the skin B) Egg-laying feature C) Cold-blood D) Three-chambered heart	Correct Ans: A
Q71) Which of the following groups of organisms are more vulnerable to the acidification of ocean?	
A) Marine algae B) Marine mammals C) Calcifying organisms D) Marine reptiles	Correct Ans: C
Q72) What cellular structure is responsible for breaking down and recycling cellular components and r	nolecules?
A) Ribosome B) Nucleus C) Mitochondrion D) Lysosome	Correct Ans: D
Q73) The digestive enzymes inside lysosomes are made by:	
A) rough endoplasmic reticulum B) Golgi apparatus C) mitochondria D) plastids themselves	Correct Ans: A
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Q74) What do you call the body cavity that is lined by mesoderm?	
A) Triploblasts B) Diploblasts C) Coelom D) Radial symmetry	Correct Ans: C
Q75) Anorexia nervosa is an eating disorder in teenagers. Here body weight:	
A) increases drastically B) does not change C) loses drastically D) increases slightly	Correct Ans: C
Q76) Based on the number of chambers in the heart, select the odd one from the following	g.
A) Crocodile B) Frog C) Chameleon D) Turtle	Correct Ans: A
Q77) The process by which a water body gradually becomes enriched with nutrients and i and nitrogen, leading to enormous growth of algae on the surface of the water, thus dissolved oxygen in the water is known as:	••••
A) Eutrophication B) Hypoxia C) Bioaccumulation D) Biomagnification	Correct Ans: A
Q78) Which virus is responsible for causing common cold?	
A) Coronavirus B) Influenza C) Hepatitis A D) Rhinovirus	Correct Ans: D
Q79) Which of the following options correctly matches column-A with column-B? Column-A (Common name) Column-B (Scientific name) i. Cuttle Fish a. Siluriformes b. Mobula b. Mobula w. Cat fish c. Sepia A) i-c, ii-a, iii-b, iv-d B) i-c, ii-d, iii-b, iv-a C) i-c, ii-d, iii-a, iv-b D) i-d, ii-c, iii-b, iv-a Q80) What is the primary role of autotrophic organisms in an ecosystem?	Correct Ans: B
A) Breaking down dead organisms B) Preying on other organisms for food	
C) Producing organic matter from inorganic substances D) Converting organic matter into ener	ах
	Correct Ans: C
 Q81) Which of the following statements is NOT true about Plastids? A) They have their own ribosomes. B) Starch, oils and protein granules are stored in chromopl C) Stroma is found in chloroplast. D) They have their own DNA. 	asts.
	Correct Ans: B
Q82) Which of the following is considered unicellular green algae?	
A) Cladophora B) Chlamydomonas C) Chlorophyta D) Oedogonium	Correct Ans: B
Q83) In the animal kingdom, which of the following phyla includes animals with a segment	ted body?
A) Arthropoda B) Annelida C) Mollusca D) Chordata	Correct Ans: B
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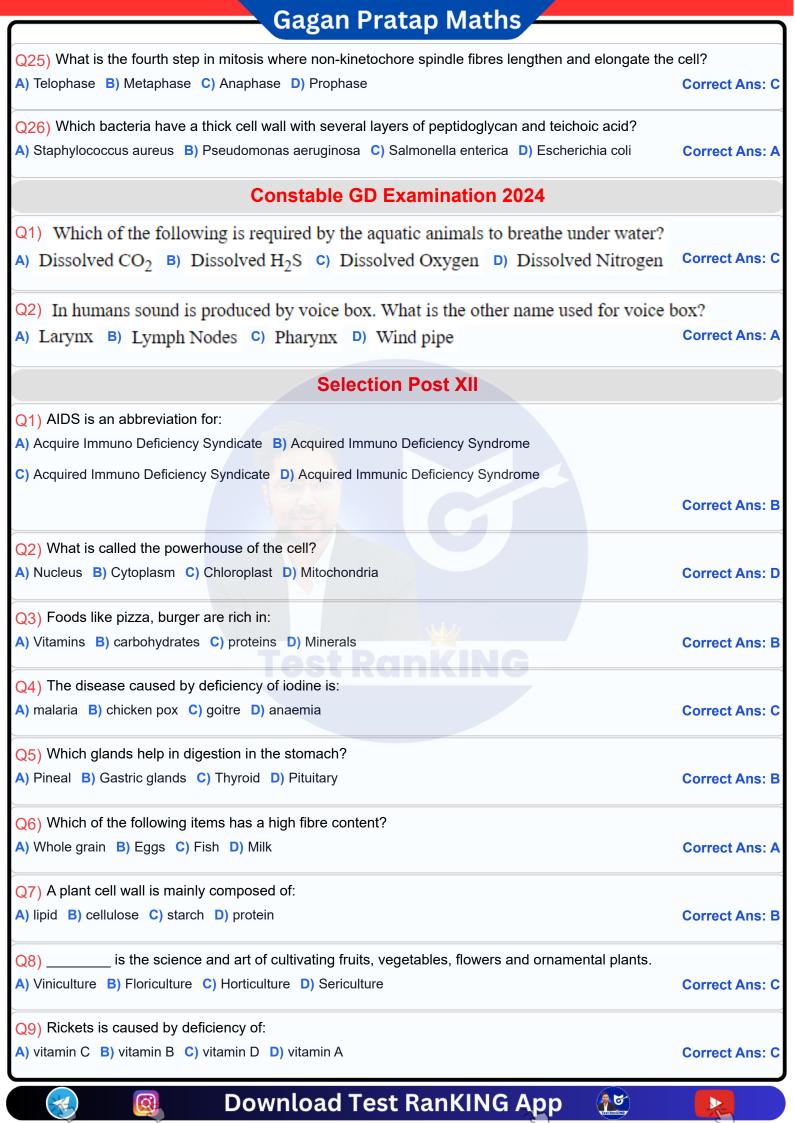
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Q95) Anorexia Nervosa is an eating disorder characterised by a) an abnormally heavy body weight	
b) an intense fear of losing weight	
c) a distorted perception of weight	
d) trying to lose weight by exercising excessively	
A) c and d B) a and c C) b and c D) a and b	Correct Ans: A
Q96) Which of the following are edible polysaccharides?	
A) Sucrose, glucose and cellulose B) Cellulose, chitin and myosin C) Methyl cellulose, chitin and actin	
D) Starch, alginates, pectins and chitosans	
	Correct Ans: D
Q97) Which organelle contains ribosomal RNA and is involved in the production of ribosomes?	~
A) Golgi apparatus B) Nucleus C) Endoplasmic reticulum D) Nucleolus	Correct Ans: D
OOD) Ovenehesteria belang to the domain of	
Q98) Cyanobacteria belong to the domain of: A) Primary Consumers B) Producers C) Decomposers D) Tertiary Consumers	Correct Ans: B
A) Filinary consumers b) Floudcers c) becomposers b) ferhary consumers	Correct Aris. B
Q99) Muscle cells and muscle fibres are developed from embryonic precursor cells known as:	
A) myonuclei B) myocyte C) myofibril D) myoblasts	Correct Ans: D
Q100) Gluten formation is observed in various foods like pasta, noodles, pizzas, and bread. Gluten occ specific proteins are mixed with water. Name the two proteins responsible for gluten formation.	urs when two
A) Glutenin and Albumin B) Glutenin and Glycine C) Glutenin and Gliadin D) Glutenin and Casein	Correct Ans: C
Q101) What is the term for the gradual, sequential changes in species composition in an ecosystem over	er time?
A) Extinction B) Succession C) Evolution D) Adaptation	Correct Ans: B
Q102) Find the odd one out. Vacuoles, Nucleus, Ribosomes, Lysosomes	
A) Nucleus B) Vacuoles C) Ribosomes D) Lysosomes	Correct Ans: C
Q103) Which of the following are the amounts of nutrients in a keto diet?	
A) Only taking high number of vitamins and minerals B) High protein and fat, carbohydrates in a low amount	
C) High carbohydrate, proper amount of protein and low fat D) High amount of fat, adequate protein and low of	carbohydrate
	Correct Ans: D
Q104) National Prophylaxis Program, which was launched in 1970 as an immediate remedial measure	to address
which of the following medical conditions /diseases caused by nutritional deficiencies?	
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A) Goitre B) Hypercalcemia C) Beriberi D) Blindness	Correct Ans: D
Q105) Which of the following is an example of anaerobic activity? A) Jumping B) Skipping C) Walking D) Swimming	Correct Ans: A
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 Q1) Which of the following foods generally increase blood pressure? A) Food high in protein B) Food high in salt, sugar and saturated or trans fats C) Food with low salt and low D) Food high in fibre 	w sugar
	Correct Ans: B
Q2) In which of the following is nicotine present in high quantity? A) Tobacco B) Tea C) Butter milk D) Lime soda	Correct Ans: A
Q3) Which of the following is NOT included in the Indian Food Guide Pyramid for healthy eating? A) Pulses and legumes B) Alcoholic beverages C) Milk, meat and products D) Fats and sugar	Correct Ans: B
Q4) Which of the following options is correctly matched? A) Decomposers – Bacteria B) Omnivorous – Green plants C) Herbivores – Secondary consumers	
D) Carnivores – Primary consumers	Correct Ans: A
Q5) Which protein is found in grains? A) Gluten B) Gum protein C) Arginine D) Delta protein	Correct Ans: A
Q6) Identify the largest phylum in the animal kingdom.	Correct Ans: C
 Q7) Identify the organelle present in plant cell that is not there in an animal cell. A) Nucleus B) Plastids C) Neuron D) Cytoplasm 	Correct Ans: B
 Q8) What is pro-vitamin A or the anti-cancer compound present in carrots called? A) Beta-carotene B) Alpha-resins C) Delta-terpenes D) Alpha-terpenoid 	Correct Ans: A
Q9) Identify a mobile source of food. A) Dead goat B) Deer C) Shrubs D) Grass	Correct Ans: B
 Q10) Identify the reason for formation of dental plaque. A) When acids stick to the teeth B) When bacteria acting on sugars produce acids C) Masses of bacterial cells together with food particles stick to the teeth D) Saliva sticks to the pulp 	
	Correct Ans: C

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Q11) Which vitamin is involved in red blood cell formation, neurological function and DNA synthesis?	
A) Vitamin B7 B) Vitamin K C) Vitamin E D) Vitamin B12	Correct Ans: D
Q12) What is the shape of the eyeball?	
A) Oval B) Spherical C) Cylindrical D) Circular	Correct Ans: B
Q13) What are the thin filamentous extensions that the motile bacterial cells have from their cell wall ca	lled?
A) Fimbriae B) Flagella C) Lamellae D) Pili	Correct Ans: B
Q14) Identify the structure that controls the size of the pupil.	
A) Vitreous humour B) Iris C) Ciliary muscles D) Cornea	Correct Ans: B
Od E) Identify an ergenelle found both in outkenyetie op well op prokenyetie	
Q15) Identify an organelle found both in eukaryotic as well as prokaryotic.	0
A) Endosomes B) Ribosomes C) Lysosomes D) Mitochondria	Correct Ans: B
Q16) To what phylum does a blood sucking leech belong?	
A) Platyhelminthes B) Aschelmenthis C) Annelida D) Cnidarian	Correct Ans: C
Q17) Garlic is good source of:	
A) zinc and cobalt B) magnesium and aluminium C) iron and copper D) manganese and selenium	Correct Ans: D
Q18) The body of the phylumis unsegmented and dorsoventrally flattened.	
A) Coelenterata B) Arthropoda C) Platyhelminthes D) Mollusca	Correct Ans: C
Q19) Which Greek term was first used by Ernst Haeckel in 1866 to refer to 'the relation of animals to be	th the organic
as well as the inorganic environment'? A) Ethnologie B) Ecophagie C) Oekologie D) Oologie	Correct Ans: C
	Correct Aris. C
Q20) Who described the algae Spirogyra in 1674 and named the motile organisms Animalcules, meanir	ng 'little
animals'?	0
A) Barthelemy Dumortier B) Maurice Wilkins C) Anton Van Leeuwenhoek D) Robert Remak	Correct Ans: C
Q21) Identify the organism that shows bioluminescence.	
A) Fasciola B) Ctenoplana C) Liver fluke D) Tapeworm	Correct Ans: B
(000) Which is an integral membrane protein that forms the tetramor and facilitates the diffusion of wate	r and some
Q22) Which is an integral membrane protein that forms the tetramer and facilitates the diffusion of wate small, unmodified solutes across cellular membranes?	r and some
A) Immunoglobulins B) Mucins C) Transferrin D) Aquaporins	Correct Ans: D
Q23) Identify a muscle responsible for exit of waste material from the body.	
A) Rectus B) Pectoralis C) Sphincter D) Gastrocnemius	Correct Ans: C
Q24) Which hairpin-like structure serves to anchor and stabilise the tick's mouthparts to its host's skin a	nd to channel
the exchange of fluids?	
A) Peduncle B) Substratum C) Hypostome D) Trunk	Correct Ans: C
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Q10) What are ribosomes made up of? A) Proteins and RNA B) Only proteins C) Only DNA D) Only RNA	
A) Proteins and RNA B) Only proteins C) Only DNA D) Only RNA	
	Correct Ans: A
Q11) Which of the following is an example of a vertebrate?	
A) Crustaceans B) Molluscs C) Insects D) Mammals	Correct Ans: D
Q12) Which type of muscles do the uterus, iris of the eye, and bronchi contain?	
A) Striated muscles B) Cardiac muscles C) Smooth muscles D) Skeletal muscles	Correct Ans: C
Q13) Which of the following classes has the largest number of animals?	
A) Mammals B) Insects C) Reptiles D) Pisces	Correct Ans: B
Q14)is associated with the production and metabolism of fats and steroid hormones.	
A) Nucleus B) Golgi apparatus C) Smooth endoplasmic reticulum D) Mitochondrion	Correct Ans: C
Q15) Compounds like gingerol, paradol, shogaols and zingerone are:	
A) antimicrobial compounds found in turmeric B) antifungal compounds found in ginger	
C) antimicrobial compounds found in citrus fruits D) antimicrobial compounds found in ginger	
	Correct Ans: D
Q16) Which of the following is the correct formula for calculating Body Mass Index (BMI)?	
A) BMI = gm/cm^2 B) BMI = $kg \times m^2$ C) BMI = kg/m^2 D) BMI = $kg \times cm^2$	Correct Ans: C
Q17) Flowerless plants, naked seeds, needle like leaves and cones as reproductive structure are	the characteristics of:
A) bryophyta B) gymnosperms C) angiosperms D) pteridophyta	Correct Ans: B
Q18) In the context of movement of cells, exocytosis is the process by which:	
A) cell death is brought about through a heavily regulated sequence of events	
B) cells move waste materials from within the cell into the extracellular fluid	
C) cells absorb external material by engulfing it with the cell membrane	
D) a cell takes in the fluids along with dissolved small molecules	
	Correct Ans: B
Q19) Which of the following was discovered by GN Ramachandran?	
A) Golgi bodies B) Plasma membrane C) Triple helical structure of collagen D) Fluid mosaic model c	of a cell
	Correct Ans: C
Q20) Select the correct statement about climax community.	
Q20) Select the correct statement about climax community.A) It is an ecological community in which populations of plants or animals, which are very unstable and	exist for very few time.

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It is an ecological community in which populations of plants or animals remain stable and exist in balance v and their environment.	vith each other
D) It consist of only plant population that makes a new ecological system.	
	Correct Ans: C
Q21) The cell wall of spirogyra contains:	
A) lignin B) cellulose C) Chitin D) suberin	Correct Ans: B
Q22) In 1955, who published a comprehensive study of small particle constituents of the cytoplasm' (rib correctly estimated their physiological importance?	posomes) and
A) Albert Von Kolliker B) George E Palade C) Pierre Joseph Pelletier D) James Thomson	Correct Ans: B
Q23) Identify the INCORRECT pair of cell shape types and their examples.	
A) Elongated – Muscle cells B) Oval – Chlamydomonas C) Irregular – Amoeba D) Oblong – Nerve cells	Correct Ans: D
Q24) is an example of acoelomate.	
A) Molluscs B) Arthropods C) Echinoderms D) Platyhelminthes	Correct Ans: D
Q25) Which vitamin prevents the neural tube defect in new-born babies?	
A) Niacin B) Riboflavin C) Folic acid D) Ascorbic acid	Correct Ans: C
Q26) Which of the following is NOT correctly matched?	
A) Mitochondria – Production of chemical energy B) Nucleolus – Synthesis of DNA	
C) Nucleus – Storage of genetic information D) Ribosome – Assembly of ribosomes	
	Correct Ans: B
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Q27) What is the root-like structure at the base of an algae (seaweed) that binds the algae to a hard su stone?	bstrate like a
A) Stipe B) Frond C) Midrib D) Holdfast	Correct Ans: D
Q28) On which of the following component of chloroplast is chlorophyll arranged?	
A) Cell Membrane B) Matrix C) Thylakoids D) Stroma	Correct Ans: C
Q29) Select the INCORRECT statement about Agar.	
A) It is used in preparations of ice-creams and jellies. B) Agar is used to grow microbes.	
C) Agar, one of the commercial products obtained from red algae, gelidium and gracilaria.	
D) It is used as nutrient and source of fat of bacterial culture.	
	Correct Ans: D
Q30) Which of the following groups represents essential amino acid?	
A) Alanine, isoleucine, leucine, lysine B) Glycine, proline, serine, and tyrosine C) Alanine, arginine, asparag	ine, aspartic acid
D) Histidine, isoleucine, leucine, lysine	

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		Correct Ans: D
(Q31) Which of the following cell c	rganelles is involved in apoptosis?	
A) Golgi B) ER C) Lysosome D)		Correct Ans: D
Q32) What is the function of cytoo		
A) ATP synthesis B) Assimilation o	f medicines and xenobiotics C) Detoxification of xenobiotics D) H	ydrolysis of glucose
		Correct Ans: C
Q33) Chromosomes found in the	salivary glands of Drosophila are:	
A) giant chromosome polytene B)	presence of fat digestive enzymes C) giant chromosome lampbrus	h
D) presence of minute chromosome	S	
		Correct Ans: A
Q34) In which of the following ani	mals are the stinging capsules located around the mouth and o	n the tentacles?
A) Taenia B) Nereis C) Adamsia	D) Ascaris	Correct Ans: C
Q35) Which chromosome is invol	ved in the production of 'masked' mRNAs for early developmen	t?
,	n chromosome C) Polytene chromosome D) Autosomal chromoso	
Stend	grapher Grade C and D Examination 2024	
Q1) The main location for ATP pro	oduction is:	
A) nucleus B) mitochondria C) pe	roxisome D) plastids	Correct Ans: B
Q2) Match column A with	n B.	
Column A	Column B	
a. Carnivores	i. Green plants	
b. Producers	ii. Secondary or tertiary consumers	
c. Decomposers	iii. Primary consumers	
d. Herbivores	iv. Bacteria	
A) a-ii, b-i, c-iv, d-iii B) a-iii, b-i, c-iv	, d-ii C) a-iii, b-iv, c-i, d-ii D) a-ii, b-iv, c-i, d-iii	Correct Ans: A
Q3) What is the name of the dise	ase that can be caused by Vitamin D deficiency in children?	
A) Osteoporosis B) Scurvy C) Ric	kets D) Bleeding diathesis	Correct Ans: C
Q4) Which of the cell organelles i	ncludes RNA?	
A) Cell base B) Cell wall C) Ribos	ome D) Cytoplasm	Correct Ans: C
Q5) are circular and b	iconcave for easy passage through blood capillaries and to trar	nsport oxygen.
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A) Guard cells B) Red blood cells C) White blood cells D) Nerve cells	Correct Ans: B
Q6) Who among the following was the first to describe the nucleus as a cell organelle?	
A) Robert Brown B) Robert Koch C) LucioFontana D) Eduard Strasburger	Correct Ans: A
Q7) Interspecific interaction between two species, in which both members benefit, is referred to as:	
A) neutralism B) commensalism C) mutualism D) uniquely	Correct Ans: C
Q8) Which of the following regarding the trophic levels is INCORRECT?	
A) Omnivores – Fungus B) Carnivores – Secondary or tertiary consumers C) Decomposers – Bacteria	
D) Herbivores – Primary consumers	
	Correct Ans: A
Q9) Which of the following is classified as an autotrophic organism?	
A) Animal B) Fungi C) Plant D) Human	Correct Ans: C
Q10) Which of the following elements is responsible for high Blood Pressure?	
A) Calcium B) Potassium C) Magnesium D) Sodium	Correct Ans: D
Q11) Choose the correct statement.	
A) Heterotrophs' survival depends directly or indirectly on autotrophs.	
B) Autotrophs' survival depends directly on heterotrophs. C) All bacteria are autotrophs. D) Animals are auto	otrophs.
	Correct Ans: A
Q12) Who discovered the nucleus of the cell?	
A) Watson B) Robert Brown C) Anton van Leeuwenhoek D) Robert Hook	Correct Ans: B
Q13) What is the vitamin deficiency in milk?	
A) A B) C C) B Complex D) D	Correct Ans: B
Q14) Who used a home-made microscope to discover the invisible world of microbes, for which he is ca founding father of microbiology?	alled the
A) Antoni van Leeuwenhoek B) Matthias Schleiden C) Rudolf Virchow D) Robert Brown	Correct Ans: A
Q15) Which of the following is a group of chlorophyll-bearing, simple, thalloid, autotrophic and primarily freshwater and marine) organisms?	aquatic (both
A) Pteridophytes B) Gymnosperms C) Algae D) Bryophytes	Correct Ans: C
Q16) Biotic potential is defined as:	
A) the tendency of a population to remain constant under extreme environmental conditions	
B) the tendency of a population to decrease under extreme environmental conditions	
C) the ability of a population to increase under ideal environmental conditions	
D) the ability of a population to survive and remain constant under ideal environmental conditions	
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	Correct Ans: D
Q17) Which organelle is common between a eukaryotic and a prokaryotic cell?	
A) Ribosomes B) Cell organelle C) Cell membrane D) Nucleus	Correct Ans: A
Q18) Identify a structure that plays a role in motility.	
A) Fimbria B) Villi C) Flagella D) Pili	Correct Ans: C
Q19) Choose the INCORRECT statement.	
A) Crocodiles have four heart chambers. B) Birds have four-chambered heart. C) Fishes have two chamber	ered heart.
D) Frogs have four-chambered heart.	
	Correct Ans: D
Q20) Choose the correct statement regarding the bacterial cell wall.	
A) Pectin is the major component of the bacterial cell wall. B) Chitin is the major component of the bacterial	cell wall.
C) The major component of the bacterial cell wall is cellulose.	
D) The major component of the bacterial cell wall is peptidoglycan or murein.	
	Correct Ans: [
Q21) The species that invade a bare are are called species.	
A) secondary B) primary C) ruderal D) pioneer	Correct Ans: D
Q22) In the context of cell organelles, a centriole is:	
A) a heterogeneous family of organelles found ubiquitously in plant cells	
B) a membrane-bound cell organelle that contains digestive enzymes	
C) a paired barrel-shaped organelle located in the cytoplasm of animal cells near the nuclear envelope	
D) a stack of small flat sacs formed by membranes inside the cell's cytoplasm	
	Correct Ans: C
Q23) Which of the below is a psychological disorder of refusal to eat food, caused by under-nutrition?	
A) Bulimia Nervosa B) Anorexia Nervosa C) Marasmus D) Kwashiorkor	Correct Ans: E
Q24) Choose the INCORRECT statement about lichens.	
A) Fungi and cyanobacteria both lives in lichens independently. B) Lichens contains cyanobacteria.	
C) Lichens are seen slow-growing large coloured patches on the bark of trees.	
D) Fungi are found in lichen living a symbiotic life.	
	Correct Ans: A
Q25) Identify the type of specialised cells found in flatworms that help in osmoregulation.	
A) Stem cells B) Mesoderm C) Sperm cells D) Flame cells	Correct Ans: D

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Q26) are amoeboid (amoeba like movement, with pseudopodia) that can squeez	e out through capillary
walls. A) Guard cells B) Nerve cells C) White blood cells D) Red blood cells	Correct Ans: C
Q27) Identify another name of Choanocytes.	
A) Flame cells B) Sperm cells C) Stem cells D) Collar cells	Correct Ans: D
Q28) Identify the scientific name of sea pen that belongs to phylum Cnidaria.	
A) Gorgonia B) Obelia C) Pennatula D) Adamsia	Correct Ans: C
Q29) Which of the following does NOT belong to the cytoskeleton filaments?	
A) Microtubules B) Intermediate C) Actin D) Centrioles	Correct Ans: D
Q30) Identify a structure found in the form of vesicles, tubules and lamellae.	
A) Cytoplasm B) Lysosomes C) Mesosomes D) Plastids	Correct Ans: C
SSC JE 2024 (Junior Engineer)	
Q1) Which of the following is/are most essential for growth and development?	
A) Salts B) Protein C) High sugar D) Spices	Correct Ans: B
Q2) Which disease is characterised by the body's inability to regulate blood sugar levels?	
A) Hypertension B) Asthma C) Arthritis D) Diabetes	Correct Ans: D
Q3) It is a fact that if you drink from a plastic bottle and throw it in the dustbin, it will still be the grandchildren are old. What is the reason behind this?	re when your
A) Plastics are biodegradable. B) Plastics are radioactive. C) Plastics are non-biodegradable. D)	Plastics are heavy metals.
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Q4) In plant cells, which organelle is responsible for photosynthesis?	
A) Chloroplast B) Mitochondrion C) Lysosome D) Peroxisome	Correct Ans: A
Q5) What is the term for the process of water loss from plant leaves through tiny openings call	led stomata?
A) Transpiration B) Respiration C) Photosynthesis D) Germination	Correct Ans: A
Q6) All the living and non-living things in a particular area constitute the of the second se	he area.
A) Ecosystem B) Food Web C) Species D) Life Circle	Correct Ans: A
Q7) Which of the following is the most important disease related to Vitamin C deficiency?	
A) Goitre B) Atherosclerosis C) Pellagra D) Scurvy	Correct Ans: D
Q8) The animals or plants which can inbreed successfully must belong to the same	
A) country B) species C) locality D) planet	Correct Ans: B
Q9) Which of the following is the most common nutritional cause of anaemia?	
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A) Iron deficiency B) Magnesium deficiency C) Calcium deficiency D) Selenium deficiency	Correct Ans: A
Q10) Which of the following is the structural and functional unit of an organism? A) Cell B) ATP C) Nucleus D) Mitochondria	Correct Ans: A
 Q11) What is the primary function of carbohydrates in the body? A) To enhance vision B) To regulate metabolism C) To build muscle D) To provide energy 	Correct Ans: D
 Q12) Which group of beneficial bacteria is commonly used in fermented dairy products? A) Streptomyces rhizobium B) Campylobacter jejuni C) Lactobacillus acidophilus D) Staphylococcus aureu 	IS
	Correct Ans: C
Q13) Which cell organelle is the energy factory of cells and is an important hub for intracellular interacti organelles?	ons with other
A) Golgi apparatus B) Lysosomes C) Mitochondria D) Peroxisomes	Correct Ans: C
Q14) Which organelle is responsible for producing ATP, the cell's energy currency?	
A) Nucleus B) Mitochondrion C) Golgi apparatus D) Endoplasmic reticulum	Correct Ans: B
Q15) What is the medical term for high blood pressure?	
A) Hyperglycemia B) Hypoglycemia C) Hypotension D) Hypertension	Correct Ans: D
Q16) Which of the following bacterial infections often affects the lungs? A) Meningitis B) Influenza C) Tuberculosis D) Herpes	Correct Ans: C
Q17) Through which of the following body parts does food need to pass before reaching the intestines?)
A) Windpipe> Food pipe B) Mouth> Rectum C) Oesophagus> Stomach D) Stomach> Rectum	Correct Ans: C
Q18) Which part of the cell is responsible for generating the primary energy molecule ATP in eukaryotic	animals?
A) Mitochondria B) Vacuoles C) Endoplasmic reticulum D) Cell wall	Correct Ans: A
Q19) The type of carbohydrate predominantly found in potatoes is	
A) Sugar B) Glucose C) Starch D) Fructose	Correct Ans: C
Q20) Food rich in carbohydrates (like potatoes) and those rich in fats (like butter) are also known as	
A) Energy-Giving Food B) Main Course C) Unsafe Food D) Fast Food	Correct Ans: A
Q21) On cold pressing groundnut, oils are released. This indicates the presence of	
A) Carbohydrates B) Fats C) Vitamins D) Proteins	Correct Ans: B
Q22) Which juice is released in our gall bladder that facilitates the digestion of fats? A) Saliva B) Acetic Acid C) Bile D) Mucous	Correct Ans: C
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Q23) Which disease causes bone pain, stunted growth and soft, weak bones that can lead	d to skeletal deformities due
to not having enough vitamin D? A) Rickets B) Pertussis C) Dementia D) Polio	Correct Ans: A
Q24) Which of the following animals is NOT a mammal? A) Lizard B) Bat C) Dolphin D) Elephant	Correct Ans: A
Q25) Which organelle contains enzymes for digesting cellular waste and foreign materials	;?
A) Nucleus B) Mitochondrion C) Lysosome D) Vacuole	Correct Ans: C
Q26) Which of the following demineralises the enamel of the teeth?	~
A) Acids produced by bacteria B) Saliva C) Toothpaste D) Soft toothbrush	Correct Ans: A
Q27) What is the process by which one organism captures and consumes another organis	sm called?
A) Mutualism B) Competition C) Predation D)	Correct Ans: C
Q28) Food digested in the stomach passes through the intestines so that the blood vessel	ls can absorb essential
nutrients for the functioning and growth of the body. What is this process known as?	
A) Transmission B) Assimilation C) Transfusion D) Integration	Correct Ans: B
Q29) Which of the following is a simple monocarboxylic acid containing two carbons?	
A) Capric acid B) Valeric acid C) Acetic acid D) Palmitic acid	Correct Ans: C
Q30) By what name is Vitamin B1 known which is essential for glucose metabolism and heart function?	ealthy nerve, muscle and
A) Niacin B) Riboflavin C) Pantothenic acid D) Thiamin	Correct Ans: D
Q31) The enzyme that is essential for fat digestion is:	
A) invertase B) trypsin C) lipase D) zymase	Correct Ans: C
 Q32) Select the correct arrangement of the parts of the food canal in humans from the starting point to the ending point. A) The buccal cavity> Oesophagus> Stomach> Large intestine> Small intestine> Rectum> Anus 	
B) The buccal cavity> Oesophagus> Stomach> Small intestine> Large intestine>	Anus> Rectum
C) The buccal cavity> Oesophagus> Stomach> Large intestine> Small intestine>	Anus> Rectum
D) The buccal cavity> Oesophagus> Stomach> Small intestine> Large intestine>	Rectum> Anus
	Correct Ans: D
Q33) Which of the following is a function of the cytoskeleton?	
A) Protein synthesis B) Cell division C) ATP production D) Cell support and shape	Correct Ans: D
Q34) Vitamin B12 is also known as:	
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A) pantothenic acid B) cyanocobalamin C) pyridoxine D) biotin	Correct Ans: B
 Q35) Which type of cell lacks a membrane-bound nucleus? A) Prokaryotic cell B) Eukaryotic cell C) Animal cell D) Plant cell 	Correct Ans: A
 Q36) Which of the following is a macronutrient? A) Vitamins B) Carbohydrates C) Minerals D) Antioxidants 	Correct Ans: B
Q37) You grew a small plant in a planter. On maturity, you observed that the plant has green stem, very and the stem is so soft that you could easily break it with your hands. Under which category will you release	
plant? A) Tree B) Creeper C) Shrub D) Herb	Correct Ans: D
Q38) Who among the following scientists discovered free living cells in pond water for the first time? A) Robert Brown B) Franz Bauer C) Robert Hooke D) Anton Van Leeuwenhoek	Correct Ans: D
Q39) What is the primary function of the Golgi apparatus?	
A) Lipid production B) Sorting and packaging of cellular products C) Protein synthesis D) Cellular respiration	n
	Correct Ans: B
 Q40) In the ecosystem, there can be multiple food chains, but only a limited number of trophic levels. Be statement which of the following is NOT true? A: Each level in the food chain represents one trophic level B: Organisms in the lowest trophic level have the highest population as a lot of energy is available survival C: There is a loss of energy as it is being absorbed by organisms at the higher trophic level D: Organisms at the highest trophic level make their own food and do not fully depend on the lower organisms for energy. 	e for their
$\mathbf{A} \mathbf{A} \mathbf{B} \mathbf{B} \mathbf{C} \mathbf{C} \mathbf{D} \mathbf{D}$	Correct Ans: D
Q41) The Y-shaped proteinaceous structure produced by the immune cells to defend our body against I and viruses are known as:	narmful bacteria
A) immunoglobulin B) amino acids C) collagen D) haemoglobin	Correct Ans: A
 Q42) Which of the following is INCORRECT about cooking of food? A) Makes it easier to digest B) Results in the loss of certain nutrients C) Destroys vitamin C easily D) Destroys vitamin D easily 	
Destroys warning easily	Correct Ans: D
 Q43) Which of the following organisms belong to the Phylum Protozoa? A) Amoeba, Paramecium, Jelly fish B) Amoeba, Paramecium, Plasmodium C) Euglena, Paramecium, Jelly f D) Amoeba, Paramecium, Taenia 	fish
	Correct Ans: B
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Q44) The primary function of which globular structure is to produce and assemble the ribosomes of the	cell?
A) Chromatin B) Centriole C) Peroxisomes D) Nucleolus	Correct Ans: D
Q45) Which phylum of the animal kingdom is made up of segmented insects like earthworms?	
A) Porifera B) Nematoda C) Platyhelminthes D) Annelida	Correct Ans: D
Q46) What is the function of the endoplasmic reticulum (ER)?	
A) Lipid synthesis and detoxification B) Protein synthesis C) Energy production D) DNA replication	Correct Ans: A
Q47) Which of the following is NOT an animal of Phylum Chordate?	
A) Rabbit B) Snake C) Frog D) Earthworm	Correct Ans: D
Q48) Which term refers to the increasing concentration of toxins within each successive link in the food	chain?
A) Biomagnification B) Facilitation C) Denitrification D) Stratification	Correct Ans: A
Q49) What is the difference between a somatic cell and a reproductive cell?	
A) Somatic cells undergo mitotic cell division while reproductive cells undergo meiotic cell division.	
B) The somatic cells have mitochondria but the reproductive cells do not have any mitochondria.	
C) Somatic cells do not contain any chromosome while reproductive cells have their own chromosome.	
D) The somatic cell and reproductive cell are neither diploid nor haploid.	
	Correct Ans: A
Q50) When two nuclei fuse together forming one nucleus during cell fusion, it is known as:	
A) synkaryon B) eukaryon C) heterokaryon D) syncytium	Correct Ans: A
Q51) One characteristic of viruses is that they do not show any signs of life unless they enter a living ho multiplying using the host's cell. What is the main reason behind this?	st and start
A) They camouflage themselves as non-living to find a host. B) They lack cell membrane and other organelles	S.
C) They lack DNA. D) They need heat of the hosts body to multiply.	
	Correct Ans: E
Q52) Besides the cell organelles, there are various types of non-living components within a cell, which a	are known as:
A) Cytoplasmic Inclusion B) Plasmodesmata C) Tubules D) Microfibrils	Correct Ans: A
Q53) Which of the following is a heart-related disease?	
A) Goiter B) Diabetes C) Angina D) Acromegaly	Correct Ans: C
Q54) Which of the following is/are a gymnosperm?	

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A) Fern B) Cycas C) Mosses D) Rose	Correct Ans: B
Q55) In which plant tissue does photosynthesis primarily occur?	
A) Xylem B) Epidermis C) Phloem D) Mesophyll	Correct Ans: D
Q56) What specialised nerve cells does the phylum Cnidaria have to capture and stun prey such as war plankton?	ter fleas and
A) collar cell B) stinging cell C) flame cell D) chief cell	Correct Ans: B
Q57) Which of the following minerals is essential for maintaining healthy bones and teeth? A) Sodium B) Potassium C) Phosphorus D) Fluoride	Correct Ans: C
 Q58) Certain grass-eating animals complete the digestion of food in two processes. First, they swallow digested food and then they regurgitate and chew upon that food again. What are such animals kr A) Heterotrophs B) Regurgitates C) Autotrophs D) Ruminants 	· ·
Q59) Which of the following is/are Pteridophyta?	
A) Hornworts B) Lichens C) Mosses D) Fern	Correct Ans: D
Q60) Which sulphur containing preservative is used to increase the shelf life of meat products such as f and burgers?	resh sausages
A) Sodium metabisulphite B) Sodium polysulfides C) Sodium thiosulfate D) Sodium phenyl sulfide	Correct Ans: A
Q61) Eukaryotic organisms can have very complex functions to sustain themselves. At the cellular level several different types of chemical functions like energy production, metabolism etc. What are the bound structures called, which are present within the cell to keep each of these functionalities sep	membrane-
A) Cytoplasm B) Plasma gel C) Organelles D) Nucleoid	Correct Ans: C
Q62) Which one of the following has the largest population in a food chain?	
A) Secondary consumers B) Primary consumers C) Decomposers D) Producers	Correct Ans: C
Q63) In which year did Rudolf Virchow develop his ideas by publishing his famous formula 'Omnis cellula-e cellula', which became a part of the foundation of cell theory?	
A) 1830 B) 1855 C) 1890 D) 1902	Correct Ans: B
Q64) Which of the following is a green alga found in vast masses of a variety of marine and fresh waters?	
A) Porphyra B) Gelidium C) Sargassum D) Cladophora	Correct Ans: D
Q65) Which phylum includes organisms with radial symmetry, such as sea anemones and jellyfish?	
A) Platyhelminthes B) Mollusca C) Porifera D) Cnidaria	Correct Ans: D
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Q66) Some simple multicellular organisms reproduce by first splitting into multiple pieces. Then each of grow up into a new individual. What is this method of reproduction known as?	
A) Regeneration B) Binary fission C) Multiple fission D) Fragmentation	Correct Ans: D
Q67) Which organelle contains enzymes that help break down fatty acids and detoxify certain compoun	ds in the cell?
A) Peroxisome B) Vacuole C) Lysosome D) Centriole	Correct Ans: A
Q68) Who discovered the staining technique called 'Black Reaction', which was capable of revealing ne entirety?	urons in their
A) Robert Remak B) Albert Kolliker C) Camillo Golgi D) Jacques Loeb	Correct Ans: C
Q69) Arachnids belong to which subphylum of the phylum Arthropoda?	
A) Chelicerata B) Myriapoda C) Hexapoda D) Crustacea	Correct Ans: A
Q70) Which species of sponges is commonly called glass sponge due to the presence of silica spicules	?
A) Euplectella B) Spongilla C) Calcarea D) Planaria	Correct Ans: A
Q71) Who along with Barry Marshall, wa <mark>s awarde</mark> d the Nobel Prize in Physiology or Medicine in 2005 fo that stomach ulcer is an infectious disease caused by bacteria?	or discovering
A) Jean Paul Vuillemin B) Robert Koch C) Gabriel Pouchet D) Robin Warren	Correct Ans: D
Q72) The basophilic nucleoprotein granules that are scattered within the cytoplasm of a nerve cell and l protein synthesis are known as:	helps in the
A) Nissl bodies B) Subunit of Parson C) Oxisome D) Golgi bodies	Correct Ans: A
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