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| ENGLISH |
| **Q1.** | I \_\_\_\_\_\_\_\_\_\_\_ English for five years. |
|  | A) StudyB) Am StudyingC) Have been StudyingD) Studies |
| **Q2.** | The soup \_\_\_\_\_\_\_\_\_\_\_ good |
|  | A) TasteB) TastesC) Is tastingD) Has taste |
| **Q3.** | Unless we \_\_\_\_\_\_\_\_\_ now, we cannot be on time |
|  | A) StartB) Will startC) Do not startD) Are starting |
| **Q4.** | Daud is better than \_\_\_\_\_\_\_\_\_ of the college. |
|  | A) All teachersB) Any teachersC) All other teachersD) Any teacher |
| **Q5.** | Abide \_\_\_\_\_\_\_\_\_\_\_ the traffic laws for smooth and safe flow of traffic. |
|  | A) ByB) OnC) WithD) To |
| **Q6.** | He prefers death \_\_\_\_\_\_\_\_\_\_\_ dishonor. |
|  | A) OverB) OnC) UponD) To |
| **Q7.** | What does the word "SURPLUS" mean? |
|  | A) In excessB) A mathematical termC) Within reachD) Salutation |
| **Q8.** | What does the word "SPILL" mean? |
|  | A) CoilB) DeliverC) SpoilD) Spread |
| **Q9.** | What does the word "CURIOUS" mean? |
|  | A) KeenB) CarefulC) QuestD) Cruel |
| **Q10.** | Pick the sentence with correct punctuation: |
|  | A) He had one motto "serving humanity."B) He, had one motto, serving humanity.C) He had one motto; serving humanity.D) He had one motto: serving humanity. |
| **Q11.** | Pick the word with correct spelling: |
|  | A) ColliqueB) ColleagueC) CollegueD) Co-league |
| **Q12.** | Pick the word with correct spelling: |
|  | A) AquaintanceB) EquatanceC) EquantenceD) Equentense |
| **Q13.** | Pick the word with correct spelling: |
|  | A) PrayorityB) PriarityC) PrioarityD) Priority |
| **Q14.** | Pick the sentence with correct punctuation: |
|  | A) "He did his best that was all anyone could do in any job".B) He did his best, that was all anyone could do in any job.C) "He did his best: that was all anyone could do in ay job".D) "He did his best; that was all anyone could do in ay job". |
| **Q15.** | Pick the correct option: |
|  | A) How has the chair leg broken?B) How has the leg of the chair broken?C) How the leg of he chair has broken?D) How the chair's leg is broken? |
|  | **BIOLOGY** |
| **Q16.** | Na+ (sodium ions) are nearly \_\_\_\_\_\_\_\_\_\_ times greater in fluid outside the cell th inside: |
|  | A) 10B) 30C) 2D) 3 |
| **Q17.** | Which hormone induces labor pains? |
|  | A) EstrogenB) OxytocinC) ProgesteroneD) LH |
| **Q18.** | Hormone secreted in bulk due to decreased water content of blood is: |
|  | A) ADH (Antidiuretic Hormone)B) OxytocinC) GlucagonD) Thyroxin |
| **Q19.** | Site for the production of neurotransmitter is: |
|  | A) Postsynaptic neuronB) Presynaptic neuronC) SynapsesD) Dendrites |
| **Q20.** | Endorphins are produced in: |
|  | A) BrainB) Adrenal glandC) StomachD) Thymus |
| **Q21.** | The hormone responsible for production of sperm cells and male secondary sexual characteristics is: |
|  | A) EstrogenB) ProgesteroneC) TestosteroneD) Thyroxin |
| **Q22.** | Leydig cells are responsible for: |
|  | A) Testosterone productionB) FSH productionC) Sperm productionD) Testosterone inhibition |
| **Q23.** | The estrogen hormone secretion during oogenesis is stimulated by: |
|  | A) Luteinizing HormoneB) InhibinC) Follicle-Stimulating HormoneD) Testosterone |
| **Q24.** | Which of the following hormones of the pituitary gland regulate the menstrual cycle? |
|  | A) FSH and estrogenB) LH and estrogenC) FSH and LHD) Estrogen and progesterone |
| **Q25.** | Which of the following traits is transmitted directly from an affected father to only his son? |
|  | A) AutosomalB) X-linkedC) Y-linkedD) X-Y linked |
| **Q26.** | When both the alleles of a gene pair are same, the organism is said to be: |
|  | A) HeterozygousB) GenotypeC) HomozygousD) Phenotype |
| **Q27.** | This theory said "mitochondria and chloroplasts are, In effect, ancient bacteria which now live inside the larger cells"? |
|  | A) Darwin's theory of evolutionB) LamarckismC) Neo-darwinismD) Endosymbiont Hypothesis |
| **Q28.** | The organ which are similar in function but differ in structure are called? |
|  | A) Analogous organsB) Homologous organsC) Convergent organsD) Divergent organs |
| **Q29.** | Which may NOT be a mode of action of an antibody? |
|  | A) Neutralizing an antigenB) Precipitating an antigenC) Secretion of cytokinesD) Enhancing phagocytosis |
| **Q30.** | Pepsinogen is converted into its active form pepsin by: |
|  | A) Proteolytic enzyme actionB) Dissolving in mucusC) Hormonal actionD) Hydrochloric acid |
| **Q31.** | Intrinsic factor is secreted by: |
|  | A) PancreasB) LiverC) StomachD) Duodenum |
| **Q32.** | The cells which play very important role in developing immunity are: |
|  | A) MonocytesB) NeutrophilisC) LymphocytesD) Thromobocytes |
| **Q33.** | Digestion of the food component start from oral cavity? |
|  | A) ProteinsB) FatsC) CarbohydratesD) Vitamins |
| **Q34.** | Vaccination is an example of: |
|  | A) Natural passive immunityB) Natural active immunityC) Acquired/Artificial active immunityD) Acquired/Artificial passive immunity |
| **Q35.** | The heart chamber from where aorta originates: |
|  | A) Left atriumB) Left ventricleC) Right ventricleD) Right atrium |
| **Q36.** | Public symphysis and inter vertebral disc are the exmaple of: |
|  | A) Fibrous jointsB) Synovial jointsC) Cartilaginous jointsD) Gliding joints |
| **Q37.** | Cartilage is more difficult to heal than bone because cartilage: |
|  | A) Lacks vascular supplyB) Lacks mineral deposits in matrixC) Has less number of cells deep downD) Lacks protein in matrix |
| **Q38.** | Which feature is absent from cardiac muscles? |
|  | A) Intercalated discB) Multinucleate cellsC) Light and dark bandsD) Contractile sarcomere |
| **Q39.** | Sarcoplasmic reticulum of muscle fibers is mainly responsible for: |
|  | A) Calcium storageB) Protein synthesisC) Lipid metabolismD) Strong cell wastes |
| **Q40.** | The junction between two neurons is: |
|  | A) ImpulseB) SynapseC) AxonD) Cleft |
| **Q41.** | Which hormone is chemically a steroid? |
|  | A) ADHB) ThyroxinC) CortisoneD) Insulin |
| **Q42.** | Under activity of parathyroid glands causes a drop in blood of: |
|  | A) Mg2+B) Na+C) K+D) Ca2+ |
| **Q43.** | Which of the following proteins establishes the matrix of bone & cartilage? |
|  | A) ElastinB) KeratinC) CollagenD) Histone |
| **Q44.** | Non-competitive inhibitors react with enzymes at: |
|  | A) Allosteric siteB) Active siteC) Passive siteD) Regulatory site |
| **Q45.** | Most enzymes work the best at the following temperature: |
|  | A) 30oCB) 40oCC) 50oCD) 20oC |
| **Q46.** | In term of enzyme actions, 'maximum temperature' refers to a temperature at which: |
|  | A) Enzymes start to denatureB) Enzymes start to re-natureC) Enzymes work bestD) Enzymes are reactivated |
| **Q47.** | \_\_\_\_\_\_\_\_\_\_\_ reduce the enzymes productivity by blocking the sun entering into the active site due to similar shapes: |
|  | A) Competitive inhibitorsB) Non-competitive inhibitorsC) Co-enzymesD) Activators |
| **Q48.** | When light falls on P-700, which event is likely to occur? |
|  | A) It induces photolysisB) Gains HydrogenC) Accept elecronsD) It is oxidized |
| **Q49.** | Which of the following molecules are released after completion of light reaction and then utilized in the dark reaction of photosynthesis? |
|  | A) ATP and NADP+B) ADP and NADP+C) ADP and NADPMD) ATP and NADPH |
| **Q50.** | Which are the end products of light reactions of photosynthesis? |
|  | A) ATP and NADPHB) ATP and glucoseC) Glucose and NADPD) ATP and water |
| **Q51.** | Synthesis of ATP during photosynthesis takes place at the region: |
|  | A) StromaB) ThylakoidC) MatrixD) Cisternae |
| **Q52.** | The complete, mature, and infectious virus particle is known as: |
|  | A) VenomeB) GenomeC) VirionD) Capsid |
| **Q53.** | All viruses are: |
|  | A) AutotrophsB) HeterotrophsC) ParasitesD) Predators |
| **Q54.** | \_\_\_\_\_\_\_\_\_\_ increases the pathogenecity of bacteria: |
|  | A) CapsuleB) Cell wallC) SlimeD) Cell membrane |
| **Q55.** | The smallest known bacteria belong to the genus: |
|  | A) MycoplasmaB) StreplococcusC) EscherichiaD) Bacillus |
| **Q56.** | Mesentric veins drain the blood from: |
|  | A) LiverB) Large intestineC) StomachD) Gall bladder |
| **Q57.** | Secondary cell wall in plants is present: |
|  | A) Outer to primary cell wallB) In between two primary cell wallsC) Between the primary cell wall and plasma membraneD) Inner to plasma membrane |
| **Q58.** | What distinguishes Prokaryotic cell walls from Fungal cell wall? |
|  | A) Prokaryotic cell walls contain celluloseB) Prokaryotic cell walls contain peptidoglycanC) Prokaryotic cell walls contain cutinD) Prokaryotic cell walls contain silica |
| **Q59.** | Pollination is facillitated by: |
|  | A) ChloroplastB) ChromoplastC) LeucoplastD) Amyloplast |
| **Q60.** | Tonoplast is the membrane separating: |
|  | A) Vacuole and NucleoplasmB) Cytoplasm and NucleoplasmC) Vacuole and stromaD) Vacuole and Cytoplasm |
| **Q61.** | Each centriole is composed of \_\_\_\_\_\_\_\_\_\_ of Microtubules: |
|  | A) Seven TripletsB) Eleven TripletsC) Nine TripletsD) Five Triplets |
| **Q62.** | The folds of the Inner Membrane of mitochondria are called: |
|  | A) CisternaeB) CristaeC) MesosomeD) Infolds |
| **Q63.** | According to the fluid mosaic model of the cell membrane, which zone is embedded inside? |
|  | A) HydrophobicB) HydrophilicC) GlobularD) Fitamentous |
| **Q64.** | Select the one which is NOT a function of Smooth Endoplasmic Reticulum (SER)? |
|  | A) Metabolism of lipidsB) Transmission of impulsesC) Transport of materialsD) Processing of glycoproteins |
| **Q65.** | Cell membrane also contains \_\_\_\_\_\_\_\_\_\_ place by active and passive transport: |
|  | A) LipidsB) Corner ProteinsC) Charged Pores.D) Carbohydrates |
| **Q66.** | \_\_\_\_\_\_\_\_ are spherical sacs, surrounded by a single membrane and contain hydrolytic enzymes: |
|  | A) MitochondriaB) Golgi BodiesC) LysosomesD) Chloroplast |
| **Q67.** | Most abundant organic compound in mammalian cells are: |
|  | A) WaterB) LipidsC) CarbohydratesD) Proteins |
| **Q68.** | Thermal stability of organisms in the environment is because of which characteristic of water? |
|  | A) Solvent propertyB) Heat capacityC) IonizationD) Protection |
| **Q69.** | C-H bonds in lipids are important: |
|  | A) As insulating materialB) Providing more energyC) As exoskeletonD) As cuticle of leaves |
| **Q70.** | These carbohydrates are sweetest among all carbohydrates: |
|  | A) MonosaccharidesB) DisaccharidesC) OligosaccharidesD) Polysaccharides |
|  | **CHEMISTRY** |
| **Q71.** | Vapor pressure is independent of which factor? |
|  | A) TemperatureB) Intermolecular forcesC) Density of liquidD) Surface area of liquid |
| **Q72.** | The boiling point of ether is less as compared to alcohols and phenols due to: |
|  | A) Functional groupB) Intermolecular forcesC) Nature of alkyl groupsD) Isomerism |
| **Q73.** | When 2 ice cubes are pressed over eaxh other they unite to form one cube due to: |
|  | A) Dipole dipole attractionB) Covalent attractionC) Van Der Waal's forcesD) H-bonding |
| **Q74.** | Which statement correctly describes the structure of sodium chloride crystal? |
|  | A) Each sodium ion is surrounded by six chloride ions and each chloride ions surrounded by six sodium ionsB) The crystal is face centered cubic structureC) Each sodium ion is surrounded by 3 chloride ions and each chloride ion surrounded by 3 sodium ionsD) Inter molecular forces are present between two oppositely charges ions |
| **Q75.** | The greater Lattice energy is shown by: |
|  | A) NaClB) NaBrC) NalD) NaF |
| **Q76.** | Thermal conductivity of metals is due to: |
|  | A) Layered structure of metalsB) Freely moving electronsC) Loosely held metal atomsD) Vibrational movement of metals |
| **Q77.** | The high pressure of 200 atm in Haber's process is used for: |
|  | A) Better yieldB) Lower yieldC) Lower rateD) Cost decrease |
| **Q78.** | By which of the following factors eqilibrium state is attained earlier? |
|  | A) TemperatureB) PressureC) ConcentrationD) Catalyst |
| **Q79.** | When temperature of reacting gases is raised by 10 K, the reaction rate will increase to: |
|  | A) DoubleB) Three timesC) Four timesD) Five times |
| **Q80.** | The minimum amount of energy required by the colliding particles for effective collisions is called: |
|  | A) Activation energyB) Lattice energyC) Bond energyD) Hydration energy |
| **Q81.** | Which of the following is not an state function? |
|  | A) Pressure (P)B) Work(W)C) Volume (V)D) Temperature (T) |
| **Q82.** | Equation represents which energy change?Mg2+(g) + O2-(g) -> MgO(s) |
|  | A) AtomizationB) NeutralizationC) Lattice energyD) Solution |
| **Q83.** | When nitric oxide reacts with ozone, the order of reaction will be: |
|  | A) 2ndB) 3rdC) 1stD) Zero |
| **Q84.** | During electrolysis, reduction occurs at the: |
|  | A) AnodeB) CathodeC) SHED) Salt bridge |
| **Q85.** | The reason of highest electrtonegativity value of Fluorine is: |
|  | A) Complete outermost shellB) Ability to form negative ionC) Existence as diatomic moleculeD) Smaller size and higher nuclear charge in the resepective period |
| **Q86.** | Valance shell electron pair repulsion theory explains: |
|  | A) Bond EnergyB) Bond lengthC) Shapes and Bond EnergyD) Shapes |
| **Q87.** | Which of the following has sp3 hybridization? |
|  | A) BF3B) C2H4C) BeCl2D) CH4 |
| **Q88.** | The factor which is not affecting bond length is: |
|  | A) Pressure of mutiple bondsB) Nature of hybridization presentC) Difference in electronegativity between the two bonded atomsD) Ionization energies of the two bonded atoms |
| **Q89.** | Which of the following substance is malleable and ductile? |
|  | A) Sodium chlorideB) Copper sulphateC) MercuryD) Aluminium |
| **Q90.** | Co-ordination number of Na is: |
|  | A) 10B) 9C) 8D) 12 |
| **Q91.** | The cracking method used to obtain better quality gasoline is: |
|  | A) ThermalB) CatalyticC) SteamD) Radiations |
| **Q92.** | Homocyclic organic compounds are sub divided into two types namely: |
|  | A) Alicyclic and AromaticB) Open chain and branched chainC) Aromatic and non-aromaticD) Antiaromatic and antialicyclic |
| **Q93.** | Acetophenone can be formed by which of the following reaction of benzene? |
|  | A) AlkylationB) HalogenationC) NitrationD) Acylation |
| **Q94.** | Generic formula of cycloalkane is: |
|  | A) CnH2n=2B) CnH2nC) CnH2n-1D) CnCH2n-2 |
| **Q95.** | Which of the following reactions differentiates alcohol from phenol? |
|  | A) Lucas testB) HalogenationsC) NitrationD) Idoform test |
| **Q96.** | The order of reactivity of alcohols when C-O bonds break is: |
|  | A) Tertiary alcohols > secondary alcohol > Primary alcoholB) Secondary alcohol > Primary alcohol > tertiary alcoholsC) Primary alcohol > Secondary alcohol > tertiary alcoholD) Tertiary alcohols > Primary alcohol > Secondary alcohol |
| **Q97.** | CnH2nO Is the general formula of: |
|  | A) EtherB) Carboxylic acidC) KetonesD) Carbolic acid |
| **Q98.** | Catalytic reduction of aldehyde & Ketone forms: |
|  | A) AlcoholB) Carboxylic acidC) AlkaneD) Aldehyde |
| **Q99.** | Which of the following reacts with Carboxylic Acid to form Ester? |
|  | A) AldehydeB) Alkyle HalideC) KetonesD) Alcohol |
| **Q100.** | Hydrolysis of Nitrites produces: |
|  | A) Carboxylic acidB) AldehydesC) KetonesD) Esters |
| **Q101.** | What is the mass of sulphur in 24.5g of H2SO4? |
|  | A) 32gB) 24gC) 16gD) 8g |
| **Q102.** | From the equation(N2 + 3H2 ↔ 2NH3), how many moles of NH3 are produced from 2.5 moles of N2? |
|  | A) 2.5 molesB) 2 molesC) 5 molesD) 7.5 moles |
| **Q103.** | The amount of energy associated with quantum of radiation is directly proportional to: |
|  | A) PhotonB) WavelengthC) FrequencyD) Velocity |
| **Q104.** | If value of azimuthal quantum number is 2 then total values of magnetic qunatum number will be: |
|  | A) 03B) 05C) 07D) 10 |
| **Q105.** | Total number of directions of f-orbitals in space are: |
|  | A) 05B) 03C) 07D) 06 |
| **Q106.** | Which of the following quantum number is not obtained from Schrodinger Wave equation? |
|  | A) Principal Quantum NumberB) Spin Quantum NumberC) Azimuthal Quantum NumberD) Magnetic Quantum Number |
| **Q107.** | The electronic configuration of degenerate orbitals is explained by: |
|  | A) Aufbau PrincipleB) n + l ruleC) Hund's ruleD) Pauli exclusion principle |
| **Q108.** | The idea that molecules in gases are in constant movement is called: |
|  | A) Kinetic theory of gasesB) Crystal field theoryC) Molecular orbital theoryD) Transition state theory |
| **Q109.** | The SI unit for pressure is : |
|  | A) mm of HgB) PascalC) BarD) Torr |
| **Q110.** | If both temperature and volume of gas are doubled, the pressure: |
|  | A) Cannot be predictedB) Is reduced to 1/2C) Remains unchangedD) Is doubled |
|  | **PHYSICS** |
| **Q111.** | In isochoric process: |
|  | A) Pressure is kep constantB) Exchange of heat is zeroC) Volume is kept constantD) Temperature is kept constant |
| **Q112.** | If 42J heat is transferred to the system during expansion, what is the change in internal energy when work done is 32J? |
|  | A) 74 JB) 10 JC) 116 JD) 106 J |
| **Q113.** | While studying charging and discharging of a capacitor, Rc = Resistance x Capacitance is known as? |
|  | A) Electrostatic constantB) Time constantC) Dielectric constantD) Proportionality constant |
| **Q114.** | The 1st law of thermodynamics is the generalization of the law of conservation of: |
|  | A) MassB) EnergyC) ChargeD) Momentum |
| **Q115.** | In parallel combination of two capacitors, their equivalent capacitance is equal to: |
|  | A) C1 + C2B) 1/C1 + C2C) C1C2/C1 + C2D) 2C1C2 /C1 + C2 |
| **Q116.** | The S.I unit capacitance of a capacitors is: |
|  | A) CoulombB) VoltC) FaradD) Ampere |
| **Q117.** | 1 kWh = |
|  | A) 0.36 x 106 JB) 36 \* 106 JC) 3.6 x 106 JD) 0.036 x 106 J |
| **Q118.** | Volt x Ampere is the unit of: |
|  | A) CurrentB) VoltC) ResistanceD) Power |
| **Q119.** | If length of the wire becomes two times to its orignal value and area becomes one half to its orignal value, than resistance of the wire becomes: |
|  | A) DoubleB) One ForthC) One halfD) 4 times |
| **Q120.** | when charged particle enters the magnetic field parallel, it will: |
|  | A) Deflect toward northB) Deflect toward southC) Move straightD) Move in circular path |
| **Q121.** | The dimension of magnetic field strength is same as that of: |
|  | A) Magnetic fluxB) Magnetic inductionC) Work doneD) Magnetic Force |
| **Q122.** | The weber is unit of measure of: |
|  | A) ConductanceB) Electric currentC) Magnetic fluxD) Electric flux |
| **Q123.** | The lenz's law is also a statement of the law of conservation of: |
|  | A) ChargeB) MassC) EnergyD) Pressure |
| **Q124.** | In fleming's right hand rule, the second finger indicates: |
|  | A) ForceB) Induced currentC) Magnetic fieldD) Motion |
| **Q125.** | A current generator is a device that converts: |
|  | A) Mechanical energy into electrical energyB) Chemical energy into mechanical energyC) Sound energy into mechanical energyD) Electrical energy into mechanical energy |
| **Q126.** | A device that converts AC into DC is called: |
|  | A) DiodeB) TransistorC) CapacitorD) Inductor |
| **Q127.** | The conversion of alternating current into direct current is called: |
|  | A) AmplificationB) RectificationC) MagnificationD) Resolution |
| **Q128.** | In full-wave rectification, \_\_\_\_\_\_\_\_\_\_ diodes are used. |
|  | A) 1B) 2C) 3D) 4 |
| **Q129.** | The time taken for half the number of atoms of radioactive isotopes to missing is called: |
|  | A) Average lifeB) Mean lifeC) Total lifeD) Half-life |
| **Q130.** | A 32g radioactive elements decays and remains 2g after 60 days. What is half-life of this radioactive elements? |
|  | A) 2 daysB) 6 daysC) 10 daysD) 15 days |
| **Q131.** | If the car is slowing down along negative x axis than acceleration will be along: |
|  | A) Positive x AxisB) Negative x AxisC) Positive y AxisD) Negative y Axis |
| **Q132.** | The instantaneous velocity along the curved path is: |
|  | A) Along the tangentB) Perpendicular to the slopeC) Parallel to the radiusD) Anti-parallel to the radius |
| **Q133.** | In a perfectly elastic collision: |
|  | A) Only momentum is conservedB) Only total energy is conservedC) Only kinetic energy is conservedD) Momentum, kinetic energy, and total energy are all conserved |
| **Q134.** | The slope of displacement-time graph is equal to: |
|  | A) VelocityB) DisplacementC) AccelerationD) Distance |
| **Q135.** | Range of a projectile on a horizontal plane is same fo the following pair of angle: |
|  | A) 60 & 20B) 15 & 30C) 75 & 15D) 50 & 25 |
| **Q136.** | The product of force and time is equal to: |
|  | A) Angular momentumB) ForceC) VelocityD) Change in momentum |
| **Q137.** | At what point during the motion of projectile its vertical component of velocity is zero? |
|  | A) Point of projectionB) Landing pointC) Highest pointD) Just before landing |
| **Q138.** | The object has 1 J of P.E. What is the work done in terms of height? |
|  | A) 1 JB) 10 JC) 0 JD) 0.1 J |
| **Q139.** | Power is dot product of: |
|  | A) Force and displacementB) Force and velocityC) Force and timeD) Work and time |
| **Q140.** | The area under a force-displacement graph gives: |
|  | A) DisplacementB) PowerC) AccelerationD) Work |
| **Q141.** | A body of mass 'm' is moving with velocity 'v'. After a short interval of time its velocity becomes double. How many times its K.E will increase or decrease? |
|  | A) 2 time increasedB) 2 time decreasedC) 4 time decreasedD) 4 time increased |
| **Q142.** | The relation between radian and degree is: |
|  | A) 1 rad = 53.7oB) 1 radian = 57.3° C) 1 rad = 1oD) 1° = π rad |
| **Q143.** | In case of centripetal force the value of instantaneous acceleration is given by: |
|  | A) ac = v / rB) ac = v2 / rC) ac = v rD) ac = v2 r |
| **Q144.** | An elecric motor turns at 400 revolutions per minute. Its angular velocity in rad/s will be: |
|  | A) 20π /3B) 30π /3C) 40π /3D) 20π /4 |
| **Q145.** | A disc, a hoop and a sphere are rolling down from an inclined plane simultaneously. Which object will reach at the bottom first? |
|  | A) HoopB) DiscC) SphereD) All at the same time |
| **Q146.** | the formula of centripetal acceleration is |
|  | A) Fc = mω2B) Fc = mrωC) Fc = mrω2D) Fc = mr2ω |
| **Q147.** | In the following figure the wavelength is: |
|  | A) 2mB) 1.5 mC) 1mD) 0.5 m |
| **Q148.** | With increase in pressure, the speed of sound will: |
|  | A) IncreaseB) DecreaseC) First increase then decreaseD) Remain the same |
| **Q149.** | In transverse waves, the portion above the mean level is called: |
|  | A) Wave frontB) Wave crestC) Wave troughD) Wave length |
| **Q150.** | The maximum displacement of particles of a medium, on either side of the mean position of a wave, is called: |
|  | A) WavelengthB) AmplitudeC) FrequencyD) Crest |
| **Q151.** |  |
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