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| ENGLISH | |
| **Q1.** | I \_\_\_\_\_\_\_\_\_\_\_ English for five years. |
|  | A) Study  B) Am Studying  C) Have been Studying  D) Studies |
| **Q2.** | The soup \_\_\_\_\_\_\_\_\_\_\_ good |
|  | A) Taste  B) Tastes  C) Is tasting  D) Has taste |
| **Q3.** | Unless we \_\_\_\_\_\_\_\_\_ now, we cannot be on time |
|  | A) Start  B) Will start  C) Do not start  D) Are starting |
| **Q4.** | Daud is better than \_\_\_\_\_\_\_\_\_ of the college. |
|  | A) All teachers  B) Any teachers  C) All other teachers  D) Any teacher |
| **Q5.** | Abide \_\_\_\_\_\_\_\_\_\_\_ the traffic laws for smooth and safe flow of traffic. |
|  | A) By  B) On  C) With  D) To |
| **Q6.** | He prefers death \_\_\_\_\_\_\_\_\_\_\_ dishonor. |
|  | A) Over  B) On  C) Upon  D) To |
| **Q7.** | What does the word "SURPLUS" mean? |
|  | A) In excess  B) A mathematical term  C) Within reach  D) Salutation |
| **Q8.** | What does the word "SPILL" mean? |
|  | A) Coil  B) Deliver  C) Spoil  D) Spread |
| **Q9.** | What does the word "CURIOUS" mean? |
|  | A) Keen  B) Careful  C) Quest  D) 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) Collique  B) Colleague  C) Collegue  D) Co-league |
| **Q12.** | Pick the word with correct spelling: |
|  | A) Aquaintance  B) Equatance  C) Equantence  D) Equentense |
| **Q13.** | Pick the word with correct spelling: |
|  | A) Prayority  B) Priarity  C) Prioarity  D) 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) 10  B) 30  C) 2  D) 3 |
| **Q17.** | Which hormone induces labor pains? |
|  | A) Estrogen  B) Oxytocin  C) Progesterone  D) LH |
| **Q18.** | Hormone secreted in bulk due to decreased water content of blood is: |
|  | A) ADH (Antidiuretic Hormone)  B) Oxytocin  C) Glucagon  D) Thyroxin |
| **Q19.** | Site for the production of neurotransmitter is: |
|  | A) Postsynaptic neuron  B) Presynaptic neuron  C) Synapses  D) Dendrites |
| **Q20.** | Endorphins are produced in: |
|  | A) Brain  B) Adrenal gland  C) Stomach  D) Thymus |
| **Q21.** | The hormone responsible for production of sperm cells and male secondary sexual characteristics is: |
|  | A) Estrogen  B) Progesterone  C) Testosterone  D) Thyroxin |
| **Q22.** | Leydig cells are responsible for: |
|  | A) Testosterone production  B) FSH production  C) Sperm production  D) Testosterone inhibition |
| **Q23.** | The estrogen hormone secretion during oogenesis is stimulated by: |
|  | A) Luteinizing Hormone  B) Inhibin  C) Follicle-Stimulating Hormone  D) Testosterone |
| **Q24.** | Which of the following hormones of the pituitary gland regulate the menstrual cycle? |
|  | A) FSH and estrogen  B) LH and estrogen  C) FSH and LH  D) Estrogen and progesterone |
| **Q25.** | Which of the following traits is transmitted directly from an affected father to only his son? |
|  | A) Autosomal  B) X-linked  C) Y-linked  D) X-Y linked |
| **Q26.** | When both the alleles of a gene pair are same, the organism is said to be: |
|  | A) Heterozygous  B) Genotype  C) Homozygous  D) 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 evolution  B) Lamarckism  C) Neo-darwinism  D) Endosymbiont Hypothesis |
| **Q28.** | The organ which are similar in function but differ in structure are called? |
|  | A) Analogous organs  B) Homologous organs  C) Convergent organs  D) Divergent organs |
| **Q29.** | Which may NOT be a mode of action of an antibody? |
|  | A) Neutralizing an antigen  B) Precipitating an antigen  C) Secretion of cytokines  D) Enhancing phagocytosis |
| **Q30.** | Pepsinogen is converted into its active form pepsin by: |
|  | A) Proteolytic enzyme action  B) Dissolving in mucus  C) Hormonal action  D) Hydrochloric acid |
| **Q31.** | Intrinsic factor is secreted by: |
|  | A) Pancreas  B) Liver  C) Stomach  D) Duodenum |
| **Q32.** | The cells which play very important role in developing immunity are: |
|  | A) Monocytes  B) Neutrophilis  C) Lymphocytes  D) Thromobocytes |
| **Q33.** | Digestion of the food component start from oral cavity? |
|  | A) Proteins  B) Fats  C) Carbohydrates  D) Vitamins |
| **Q34.** | Vaccination is an example of: |
|  | A) Natural passive immunity  B) Natural active immunity  C) Acquired/Artificial active immunity  D) Acquired/Artificial passive immunity |
| **Q35.** | The heart chamber from where aorta originates: |
|  | A) Left atrium  B) Left ventricle  C) Right ventricle  D) Right atrium |
| **Q36.** | Public symphysis and inter vertebral disc are the exmaple of: |
|  | A) Fibrous joints  B) Synovial joints  C) Cartilaginous joints  D) Gliding joints |
| **Q37.** | Cartilage is more difficult to heal than bone because cartilage: |
|  | A) Lacks vascular supply  B) Lacks mineral deposits in matrix  C) Has less number of cells deep down  D) Lacks protein in matrix |
| **Q38.** | Which feature is absent from cardiac muscles? |
|  | A) Intercalated disc  B) Multinucleate cells  C) Light and dark bands  D) Contractile sarcomere |
| **Q39.** | Sarcoplasmic reticulum of muscle fibers is mainly responsible for: |
|  | A) Calcium storage  B) Protein synthesis  C) Lipid metabolism  D) Strong cell wastes |
| **Q40.** | The junction between two neurons is: |
|  | A) Impulse  B) Synapse  C) Axon  D) Cleft |
| **Q41.** | Which hormone is chemically a steroid? |
|  | A) ADH  B) Thyroxin  C) Cortisone  D) 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) Elastin  B) Keratin  C) Collagen  D) Histone |
| **Q44.** | Non-competitive inhibitors react with enzymes at: |
|  | A) Allosteric site  B) Active site  C) Passive site  D) Regulatory site |
| **Q45.** | Most enzymes work the best at the following temperature: |
|  | A) 30oC B) 40oC C) 50oC D) 20oC |
| **Q46.** | In term of enzyme actions, 'maximum temperature' refers to a temperature at which: |
|  | A) Enzymes start to denature  B) Enzymes start to re-nature  C) Enzymes work best  D) Enzymes are reactivated |
| **Q47.** | \_\_\_\_\_\_\_\_\_\_\_ reduce the enzymes productivity by blocking the sun entering into the active site due to similar shapes: |
|  | A) Competitive inhibitors  B) Non-competitive inhibitors  C) Co-enzymes  D) Activators |
| **Q48.** | When light falls on P-700, which event is likely to occur? |
|  | A) It induces photolysis  B) Gains Hydrogen  C) Accept elecrons  D) 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 NADPM D) ATP and NADPH |
| **Q50.** | Which are the end products of light reactions of photosynthesis? |
|  | A) ATP and NADPH  B) ATP and glucose  C) Glucose and NADP  D) ATP and water |
| **Q51.** | Synthesis of ATP during photosynthesis takes place at the region: |
|  | A) Stroma  B) Thylakoid  C) Matrix  D) Cisternae |
| **Q52.** | The complete, mature, and infectious virus particle is known as: |
|  | A) Venome  B) Genome  C) Virion  D) Capsid |
| **Q53.** | All viruses are: |
|  | A) Autotrophs  B) Heterotrophs  C) Parasites  D) Predators |
| **Q54.** | \_\_\_\_\_\_\_\_\_\_ increases the pathogenecity of bacteria: |
|  | A) Capsule  B) Cell wall  C) Slime  D) Cell membrane |
| **Q55.** | The smallest known bacteria belong to the genus: |
|  | A) Mycoplasma  B) Streplococcus  C) Escherichia  D) Bacillus |
| **Q56.** | Mesentric veins drain the blood from: |
|  | A) Liver  B) Large intestine  C) Stomach  D) Gall bladder |
| **Q57.** | Secondary cell wall in plants is present: |
|  | A) Outer to primary cell wall  B) In between two primary cell walls  C) Between the primary cell wall and plasma membrane  D) Inner to plasma membrane |
| **Q58.** | What distinguishes Prokaryotic cell walls from Fungal cell wall? |
|  | A) Prokaryotic cell walls contain cellulose  B) Prokaryotic cell walls contain peptidoglycan  C) Prokaryotic cell walls contain cutin  D) Prokaryotic cell walls contain silica |
| **Q59.** | Pollination is facillitated by: |
|  | A) Chloroplast  B) Chromoplast  C) Leucoplast  D) Amyloplast |
| **Q60.** | Tonoplast is the membrane separating: |
|  | A) Vacuole and Nucleoplasm  B) Cytoplasm and Nucleoplasm  C) Vacuole and stroma  D) Vacuole and Cytoplasm |
| **Q61.** | Each centriole is composed of \_\_\_\_\_\_\_\_\_\_ of Microtubules: |
|  | A) Seven Triplets  B) Eleven Triplets  C) Nine Triplets  D) Five Triplets |
| **Q62.** | The folds of the Inner Membrane of mitochondria are called: |
|  | A) Cisternae  B) Cristae  C) Mesosome  D) Infolds |
| **Q63.** | According to the fluid mosaic model of the cell membrane, which zone is embedded inside? |
|  | A) Hydrophobic  B) Hydrophilic  C) Globular  D) Fitamentous |
| **Q64.** | Select the one which is NOT a function of Smooth Endoplasmic Reticulum (SER)? |
|  | A) Metabolism of lipids  B) Transmission of impulses  C) Transport of materials  D) Processing of glycoproteins |
| **Q65.** | Cell membrane also contains \_\_\_\_\_\_\_\_\_\_ place by active and passive transport: |
|  | A) Lipids  B) Corner Proteins  C) Charged Pores.  D) Carbohydrates |
| **Q66.** | \_\_\_\_\_\_\_\_ are spherical sacs, surrounded by a single membrane and contain hydrolytic enzymes: |
|  | A) Mitochondria  B) Golgi Bodies  C) Lysosomes  D) Chloroplast |
| **Q67.** | Most abundant organic compound in mammalian cells are: |
|  | A) Water  B) Lipids  C) Carbohydrates  D) Proteins |
| **Q68.** | Thermal stability of organisms in the environment is because of which characteristic of water? |
|  | A) Solvent property  B) Heat capacity  C) Ionization  D) Protection |
| **Q69.** | C-H bonds in lipids are important: |
|  | A) As insulating material  B) Providing more energy  C) As exoskeleton  D) As cuticle of leaves |
| **Q70.** | These carbohydrates are sweetest among all carbohydrates: |
|  | A) Monosaccharides  B) Disaccharides  C) Oligosaccharides  D) Polysaccharides |
|  | **CHEMISTRY** |
| **Q71.** | Vapor pressure is independent of which factor? |
|  | A) Temperature  B) Intermolecular forces  C) Density of liquid  D) Surface area of liquid |
| **Q72.** | The boiling point of ether is less as compared to alcohols and phenols due to: |
|  | A) Functional group  B) Intermolecular forces  C) Nature of alkyl groups  D) Isomerism |
| **Q73.** | When 2 ice cubes are pressed over eaxh other they unite to form one cube due to: |
|  | A) Dipole dipole attraction  B) Covalent attraction  C) Van Der Waal's forces  D) 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 ions  B) The crystal is face centered cubic structure  C) Each sodium ion is surrounded by 3 chloride ions and each chloride ion surrounded by 3 sodium ions  D) Inter molecular forces are present between two oppositely charges ions |
| **Q75.** | The greater Lattice energy is shown by: |
|  | A) NaCl  B) NaBr  C) Nal  D) NaF |
| **Q76.** | Thermal conductivity of metals is due to: |
|  | A) Layered structure of metals  B) Freely moving electrons  C) Loosely held metal atoms  D) Vibrational movement of metals |
| **Q77.** | The high pressure of 200 atm in Haber's process is used for: |
|  | A) Better yield  B) Lower yield  C) Lower rate  D) Cost decrease |
| **Q78.** | By which of the following factors eqilibrium state is attained earlier? |
|  | A) Temperature  B) Pressure  C) Concentration  D) Catalyst |
| **Q79.** | When temperature of reacting gases is raised by 10 K, the reaction rate will increase to: |
|  | A) Double  B) Three times  C) Four times  D) Five times |
| **Q80.** | The minimum amount of energy required by the colliding particles for effective collisions is called: |
|  | A) Activation energy  B) Lattice energy  C) Bond energy  D) 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) Atomization  B) Neutralization  C) Lattice energy  D) Solution |
| **Q83.** | When nitric oxide reacts with ozone, the order of reaction will be: |
|  | A) 2nd B) 3rd C) 1st D) Zero |
| **Q84.** | During electrolysis, reduction occurs at the: |
|  | A) Anode  B) Cathode  C) SHE  D) Salt bridge |
| **Q85.** | The reason of highest electrtonegativity value of Fluorine is: |
|  | A) Complete outermost shell  B) Ability to form negative ion  C) Existence as diatomic molecule  D) Smaller size and higher nuclear charge in the resepective period |
| **Q86.** | Valance shell electron pair repulsion theory explains: |
|  | A) Bond Energy  B) Bond length  C) Shapes and Bond Energy  D) Shapes |
| **Q87.** | Which of the following has sp3 hybridization? |
|  | A) BF3 B) C2H4 C) BeCl2 D) CH4 |
| **Q88.** | The factor which is not affecting bond length is: |
|  | A) Pressure of mutiple bonds  B) Nature of hybridization present  C) Difference in electronegativity between the two bonded atoms  D) Ionization energies of the two bonded atoms |
| **Q89.** | Which of the following substance is malleable and ductile? |
|  | A) Sodium chloride  B) Copper sulphate  C) Mercury  D) Aluminium |
| **Q90.** | Co-ordination number of Na is: |
|  | A) 10  B) 9  C) 8  D) 12 |
| **Q91.** | The cracking method used to obtain better quality gasoline is: |
|  | A) Thermal  B) Catalytic  C) Steam  D) Radiations |
| **Q92.** | Homocyclic organic compounds are sub divided into two types namely: |
|  | A) Alicyclic and Aromatic  B) Open chain and branched chain  C) Aromatic and non-aromatic  D) Antiaromatic and antialicyclic |
| **Q93.** | Acetophenone can be formed by which of the following reaction of benzene? |
|  | A) Alkylation  B) Halogenation  C) Nitration  D) Acylation |
| **Q94.** | Generic formula of cycloalkane is: |
|  | A) CnH2n=2 B) CnH2n C) CnH2n-1 D) CnCH2n-2 |
| **Q95.** | Which of the following reactions differentiates alcohol from phenol? |
|  | A) Lucas test  B) Halogenations  C) Nitration  D) Idoform test |
| **Q96.** | The order of reactivity of alcohols when C-O bonds break is: |
|  | A) Tertiary alcohols > secondary alcohol > Primary alcohol  B) Secondary alcohol > Primary alcohol > tertiary alcohols  C) Primary alcohol > Secondary alcohol > tertiary alcohol  D) Tertiary alcohols > Primary alcohol > Secondary alcohol |
| **Q97.** | CnH2nO Is the general formula of: |
|  | A) Ether  B) Carboxylic acid  C) Ketones  D) Carbolic acid |
| **Q98.** | Catalytic reduction of aldehyde & Ketone forms: |
|  | A) Alcohol  B) Carboxylic acid  C) Alkane  D) Aldehyde |
| **Q99.** | Which of the following reacts with Carboxylic Acid to form Ester? |
|  | A) Aldehyde  B) Alkyle Halide  C) Ketones  D) Alcohol |
| **Q100.** | Hydrolysis of Nitrites produces: |
|  | A) Carboxylic acid  B) Aldehydes  C) Ketones  D) Esters |
| **Q101.** | What is the mass of sulphur in 24.5g of H2SO4? |
|  | A) 32g  B) 24g  C) 16g  D) 8g |
| **Q102.** | From the equation  (N2 + 3H2 ↔ 2NH3), how many moles of NH3 are produced from 2.5 moles of N2? |
|  | A) 2.5 moles  B) 2 moles  C) 5 moles  D) 7.5 moles |
| **Q103.** | The amount of energy associated with quantum of radiation is directly proportional to: |
|  | A) Photon  B) Wavelength  C) Frequency  D) Velocity |
| **Q104.** | If value of azimuthal quantum number is 2 then total values of magnetic qunatum number will be: |
|  | A) 03  B) 05  C) 07  D) 10 |
| **Q105.** | Total number of directions of f-orbitals in space are: |
|  | A) 05  B) 03  C) 07  D) 06 |
| **Q106.** | Which of the following quantum number is not obtained from Schrodinger Wave equation? |
|  | A) Principal Quantum Number  B) Spin Quantum Number  C) Azimuthal Quantum Number  D) Magnetic Quantum Number |
| **Q107.** | The electronic configuration of degenerate orbitals is explained by: |
|  | A) Aufbau Principle  B) n + l rule  C) Hund's rule  D) Pauli exclusion principle |
| **Q108.** | The idea that molecules in gases are in constant movement is called: |
|  | A) Kinetic theory of gases  B) Crystal field theory  C) Molecular orbital theory  D) Transition state theory |
| **Q109.** | The SI unit for pressure is : |
|  | A) mm of Hg  B) Pascal  C) Bar  D) Torr |
| **Q110.** | If both temperature and volume of gas are doubled, the pressure: |
|  | A) Cannot be predicted  B) Is reduced to 1/2  C) Remains unchanged  D) Is doubled |
|  | **PHYSICS** |
| **Q111.** | In isochoric process: |
|  | A) Pressure is kep constant  B) Exchange of heat is zero  C) Volume is kept constant  D) 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 J  B) 10 J  C) 116 J  D) 106 J |
| **Q113.** | While studying charging and discharging of a capacitor, Rc = Resistance x Capacitance is known as? |
|  | A) Electrostatic constant  B) Time constant  C) Dielectric constant  D) Proportionality constant |
| **Q114.** | The 1st law of thermodynamics is the generalization of the law of conservation of: |
|  | A) Mass  B) Energy  C) Charge  D) Momentum |
| **Q115.** | In parallel combination of two capacitors, their equivalent capacitance is equal to: |
|  | A) C1 + C2 B) 1/C1 + C2 C) C1C2/C1 + C2 D) 2C1C2 /C1 + C2 |
| **Q116.** | The S.I unit capacitance of a capacitors is: |
|  | A) Coulomb  B) Volt  C) Farad  D) Ampere |
| **Q117.** | 1 kWh = |
|  | A) 0.36 x 106 J B) 36 \* 106 J C) 3.6 x 106 J D) 0.036 x 106 J |
| **Q118.** | Volt x Ampere is the unit of: |
|  | A) Current  B) Volt  C) Resistance  D) 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) Double  B) One Forth  C) One half  D) 4 times |
| **Q120.** | when charged particle enters the magnetic field parallel, it will: |
|  | A) Deflect toward north  B) Deflect toward south  C) Move straight  D) Move in circular path |
| **Q121.** | The dimension of magnetic field strength is same as that of: |
|  | A) Magnetic flux  B) Magnetic induction  C) Work done  D) Magnetic Force |
| **Q122.** | The weber is unit of measure of: |
|  | A) Conductance  B) Electric current  C) Magnetic flux  D) Electric flux |
| **Q123.** | The lenz's law is also a statement of the law of conservation of: |
|  | A) Charge  B) Mass  C) Energy  D) Pressure |
| **Q124.** | In fleming's right hand rule, the second finger indicates: |
|  | A) Force  B) Induced current  C) Magnetic field  D) Motion |
| **Q125.** | A current generator is a device that converts: |
|  | A) Mechanical energy into electrical energy  B) Chemical energy into mechanical energy  C) Sound energy into mechanical energy  D) Electrical energy into mechanical energy |
| **Q126.** | A device that converts AC into DC is called: |
|  | A) Diode  B) Transistor  C) Capacitor  D) Inductor |
| **Q127.** | The conversion of alternating current into direct current is called: |
|  | A) Amplification  B) Rectification  C) Magnification  D) Resolution |
| **Q128.** | In full-wave rectification, \_\_\_\_\_\_\_\_\_\_ diodes are used. |
|  | A) 1  B) 2  C) 3  D) 4 |
| **Q129.** | The time taken for half the number of atoms of radioactive isotopes to missing is called: |
|  | A) Average life  B) Mean life  C) Total life  D) Half-life |
| **Q130.** | A 32g radioactive elements decays and remains 2g after 60 days. What is half-life of this radioactive elements? |
|  | A) 2 days  B) 6 days  C) 10 days  D) 15 days |
| **Q131.** | If the car is slowing down along negative x axis than acceleration will be along: |
|  | A) Positive x Axis  B) Negative x Axis  C) Positive y Axis  D) Negative y Axis |
| **Q132.** | The instantaneous velocity along the curved path is: |
|  | A) Along the tangent  B) Perpendicular to the slope  C) Parallel to the radius  D) Anti-parallel to the radius |
| **Q133.** | In a perfectly elastic collision: |
|  | A) Only momentum is conserved  B) Only total energy is conserved  C) Only kinetic energy is conserved  D) Momentum, kinetic energy, and total energy are all conserved |
| **Q134.** | The slope of displacement-time graph is equal to: |
|  | A) Velocity  B) Displacement  C) Acceleration  D) Distance |
| **Q135.** | Range of a projectile on a horizontal plane is same fo the following pair of angle: |
|  | A) 60 & 20  B) 15 & 30  C) 75 & 15  D) 50 & 25 |
| **Q136.** | The product of force and time is equal to: |
|  | A) Angular momentum  B) Force  C) Velocity  D) Change in momentum |
| **Q137.** | At what point during the motion of projectile its vertical component of velocity is zero? |
|  | A) Point of projection  B) Landing point  C) Highest point  D) Just before landing |
| **Q138.** | The object has 1 J of P.E. What is the work done in terms of height? |
|  | A) 1 J  B) 10 J  C) 0 J  D) 0.1 J |
| **Q139.** | Power is dot product of: |
|  | A) Force and displacement  B) Force and velocity  C) Force and time  D) Work and time |
| **Q140.** | The area under a force-displacement graph gives: |
|  | A) Displacement  B) Power  C) Acceleration  D) 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 increased  B) 2 time decreased  C) 4 time decreased  D) 4 time increased |
| **Q142.** | The relation between radian and degree is: |
|  | A) 1 rad = 53.7o B) 1 radian = 57.3°  C) 1 rad = 1o D) 1° = π rad |
| **Q143.** | In case of centripetal force the value of instantaneous acceleration is given by: |
|  | A) ac = v / r B) ac = v2 / r C) ac = v r D) ac = v2 r |
| **Q144.** | An elecric motor turns at 400 revolutions per minute. Its angular velocity in rad/s will be: |
|  | A) 20π /3 B) 30π /3 C) 40π /3 D) 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) Hoop  B) Disc  C) Sphere  D) All at the same time |
| **Q146.** | the formula of centripetal acceleration is |
|  | A) Fc = mω2 B) Fc = mrω C) Fc = mrω2 D) Fc = mr2ω |
| **Q147.** | In the following figure the wavelength is: |
|  | A) 2m B) 1.5 m C) 1m D) 0.5 m |
| **Q148.** | With increase in pressure, the speed of sound will: |
|  | A) Increase  B) Decrease  C) First increase then decrease  D) Remain the same |
| **Q149.** | In transverse waves, the portion above the mean level is called: |
|  | A) Wave front  B) Wave crest  C) Wave trough  D) Wave length |
| **Q150.** | The maximum displacement of particles of a medium, on either side of the mean position of a wave, is called: |
|  | A) Wavelength  B) Amplitude  C) Frequency  D) Crest |
| **Q151.** |  |
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