

PMC PRACTICE TEST 17

BIOLOGY

- Q.1** Where the heterozygote is indistinguishable from one of the homozygotes the allele involved is said to be?
- A. Recessive
B. Dominant
C. Both a and b
D. None of These
- Q.2** Bond specificity of an enzyme is also known as?
- A. Relative specificity
B. Size specificity
C. Group specificity
D. None of these
- Q.3** What type of molecule is Chlorophyll?
- A. Inorganic
B. Cationic
C. Anionic
D. Organic
- Q.4** Which of the following bacteria are thick rigid and spiral?
- A. Coccus
B. Vibrio
C. Spirillum
D. Bacillus
- Q.5** What percentage of protein is found in the cell membrane?
- A. 20-40
B. 40-50
C. 60-80
D. 90
- Q.6** Of the following which one is not included in Protostomes?
- A. Arthropods
B. Hemichordates
C. Annelids
D. Molluscs
- Q.7** An increase in plant girth due to activity of which of the following?
- A. Cork cambium
B. Vascular cambium
C. Pith
D. Both a & B
- Q.8** The glycerols are considered backbone of
- A. DNA
B. RNA
C. ATP
D. Triglycerides
- Q.9** The attraction between water molecules is termed as:
- A. Cohesion
B. Tension
C. Adhesion
D. Imbibition
- Q.10** Which two reactions occur during photophosphorylation
- A. ATP is hydrolysed and NADP is reduced.
B. ATP is hydrolysed and NADPH is oxidised.
C. ATP is synthesised and NADP is reduced.
D. ATP is synthesised and NADPH is oxidized
- Q.11** A reflex action involving two or more interneurons between sensory and motor neuron is called:
- A. Monosynaptic reflex
B. Polysynaptic reflex
C. Hemi Synaptic reflex
D. None of these
- Q.12** The substrate concentration that produces exactly half of the maximum reaction rate can be described by?
- A. Michaelis equation
B. Menten equation
C. Bernoulli equation
D. Michaelis-Menten equation
- Q.13** The image represent by compound microscope is
- A. Real
B. Virtual
C. Real inverted
D. Virtual inverted
- Q.14** The arrangement of cocci is basically due to their
- A. Shapes
B. Planes of division
C. Binary fission
D. Chain formation

- Q.15 How can hepatitis be controlled?**
 A. Adopting hygienic measures
 B. Routine vaccinations
 C. Screening of organ donors
 D. All of the above
- Q.16 If we consider Hardy-Weinberg law, then following is incorrect in its sense?**
 A. Mutations cause changes in genetic frequency
 B. Migration changes allele frequency
 C. There should not be selection
 D. Non-random mating will reduce chances of evolution
- Q.17 Which one of the following statements about enzymes is not true?**
 A. They are sensitive to heat
 B. They consist of proteins or without a non-proteins part
 C. They change the rate of catalyzed reaction
 D. They are non-specific in their action
- Q.18 The function of tropomyosin is to prevent actin and myosin from — when the muscle is at rest.**
 A. Interacting
 B. Separation
 C. Both A and B
 D. None of these
- Q.19 Change in the frequency of alleles at a locus that occurs by chance is which of the following phenomenon?**
 A. Mutation
 B. Selection
 C. Non-random mating
 D. Genetic drift
- Q.20 The number of autosomes in human sperm is:**
 A. 11
 B. 22
 C. 44
 D. 45
- Q.21 The outer portion of spinal cord is composed of:**
 A. White matter
 B. Gray matter
 C. Cell bodies
 D. Non-myelinated nerve fibres
- Q.22 Binomial nomenclature was introduced by**
 A. Aristotle
 B. Linnaeus
 C. Mendel
 D. Darwin
- Q.23 Pre Chordates is another name used for which of the following?**
 A. Echinoderms
 B. Vertebrates
 C. Chordates
 D. Hemichordates
- Q.24 All DNA virus replicate in the nucleus?**
 A. Yes all
 B. No
 C. Yes but some exceptions
 D. They replicate in cytoplasm
- Q.25 All of the following are true for platyhelminthes except?**
 A. Flatworms
 B. Triploblastic
 C. Bilateral symmetry
 D. Coelomate
- Q.26 The bacteriophage is shaped as?**
 A. Rod
 B. Spherical
 C. Tadpole
 D. Helical
- Q.27 Compared to gram negative bacteria, how many more membrane-bound organelles do gram positive bacteria contain?**
 A. 0
 B. 1
 C. 2
 D. 3
- Q.28 What type of bonds exist between an enzyme and its prosthetic group?**
 A. Ionic
 B. Covalent
 C. Hydrogen
 D. Metallic
- Q.29 End of menstrual cycle in old age is called?**

- A. Andropause
B. Gametopause
C. Menopause
D. All of these
- Q.30** In the human body, the group formed by neurons enclosed in the membrane at certain body parts is called?
A. Benign
B. Malign
C. Ganglion
D. Neuroglial
- Q.31** Gut in pseudocoelomates is made from which of the following?
A. Ectoderm
B. Mesoderm
C. Endoderm
D. All of these
- Q.32** What is produced in the muscle cells during extreme physical activity?
A. Acetyl coA
B. Alcohol
C. Lactic acid
D. All of these
- Q.33** The offspring of mating between two pure strains are called:
A. Hybrid
B. The P generation
C. Mutants
D. The F₂ generation
- Q.34** Which of these lobes contains Broca's area, which is associated with speech ability?
A. Frontal
B. Parietal
C. Temporal
D. Occipital
- Q.35** Apomixis is a form of which of the following?
A. Parthenocarpy
B. Parthenogenesis
C. Vernalization
D. All of these
- Q.36** The furan ring is an important structural component of biological molecules. How many carbon atoms are required to form ribofuranose?
A. 3
B. 5
C. 6
D. 2
- Q.37** The persons suffering from chronic bronchitis at the age
A. 20
B. 30
C. 35
D. 45
- Q.38** The bronchi divide into the lungs and make fine tubes that are termed as
A. Bronchi
B. Bronchioles
C. Pharynx duct
D. Alveolar duct
- Q.39** An enzyme is said to be denatured in the presence of?
A. No cofactor
B. Low temperature
C. Extremely high temperature
D. None of these
- Q.40** If enzyme concentration is low than substrate pH and temperature values are equal to requirement then which of the following will increase rate of reaction?
A. Increase in concentration of substrate
B. Increase in pH
C. Increase in temperature
D. Increase in concentration of enzyme
- Q.41** All of the following are trace elements except
A. Iron
B. Chromium
C. Nickel
D. Sulphur is minor element
- Q.42** Which of the following statements are true about the capsomeres?
A. It is an individual unit of the capsid
B. It is a viral protein for replication
C. A. It is a unit of nucleic acid in viruses
D. All of the above
- Q.43** Mild wheezing, Fever, chills, and shortness of breath; all are symptoms of
A. Emphysema
B. Asthma
C. Pneumonia
D. Bronchitis

- Q.44** Where does the detoxification of harmful drugs occur?
 A. RER
 B. SER
 C. Golgi
 D. Both A and B
- Q.45** At joints, the exoskeleton are:
 A. Thick, soft and flexible
 B. Thin, soft and flexible
 C. Thin, hard and immovable
 D. Thick, hard and flexible
- Q.46** In terrestrial conditions, the type of fertilization more common is:
 A. Internal
 B. External
 C. Self
 D. All A,B and C are correct
- Q.47** Which of the following is the best description of a bacteriophage?
 A. Fungus
 B. Prokaryote
 C. Living organism
 D. Obligate intracellular parasite
- Q.48** Which of the following glands contribute to the production of semen?
 A. Seminal vesicles
 B. Bulbourethral glands
 C. Prostate gland
 D. All of These
- Q.49** Which brain part is responsible for the formation of long term memory?
 A. Medulla
 B. Thalamus
 C. Hippocampus
 D. Corpus callosum
- Q.50** Where in a leaf mesophyll cell would you find DNA molecules?
 A. Nucleus only
 B. Nucleus & mitochondria only
 C. Nucleus, mitochondria & chloroplasts only
 D. Nucleus, mitochondria, chloroplasts & plasmids only
- Q.51** Net yield of H₂O in Photosynthesis is?
 A. 1
 B. 6
 C. 3
 D. 0
- Q.52** Pidgeon, platypus and panda are all representatives of which of the following?
 A. Homeothermic
 B. Hyperthermic
 C. Poikilothermic
 D. None of these
- Q.53** Which of the following is an incorrect difference between a shark and a whale?
 A. A shark's heart has only one chamber whereas a whale's heart has two chambers.
 B. Shark gills are not covered by operculum whereas those in a whale are.
 C. Sharks do not possess a swim bladder whereas whales do.
 D. Sharks have placoid scales on their skin whereas whales don't.
- Q.54** Example of a homologous organ is represented best by which of the following?
 A. Wing of an insect, wing of a bird
 B. Leg of a dog, leg of a spider
 C. The arm of a human, wing of a bird
 D. All of these
- Q.55** A key property of a living being is that it contains _____ for making its protein
 A. Amino acids
 B. Mitochondria
 C. mRNA
 D. Ribosomes
- Q.56** In a certain flower, a blue petal phenotype is dominant to a white petal phenotype. If you cross a heterozygous flower with a homozygous recessive flower, what is the probability of inheritance for the white petal phenotype?
 A. 25%
 B. 50%
 C. 75%
 D. 1

- Q.57** What types of viruses contain the enzyme lysozyme to aid in their infection?
 A. Bacteriophage
 B. Animal viruses
 C. Plant viruses
 D. Fungal viruses
- Q.58** What would you predict would happen to pancreatic enzymes if they were introduced to the stomach?
 A. Their function would decrease due to increased pH
 B. Their function would decrease due to decreased pH
 C. Their function would increase due to decreased proton concentration
 D. Their function would increase due to decreased pH
- Q.59** What is not true about enzyme?
 A. The K_{eq} of a reaction remains unchanged in the presence of an enzyme
 B. Enzymes speed up the rate of reaction in DNA synthesis
 C. Harsh, acidic conditions can completely denature an enzyme
 D. An enzyme is completely converted to product during metabolism
- Q.60** A chloroplast has 3 main components. They are the envelope, stroma and?
 A. Thylakoid
 B. Fl particles
 C. Granum
 D. Centrosome
- Q.61** The smallest bacterium is
 A. Mycoplasma
 B. Lactobacillus
 C. Pseudomonas
 D. Escherichia coli
- Q.62** Which of the following statement about neuron is incorrect?
 A. They not only conduct impulses but also generate them
 B. They are not the only cellular component of nervous system
 C. They may show limited regenerative capabilities
 D. Like all the living cell, when they mature and divide to form similar cells
- Q.63** What happens in a contracted muscle fibre?
 A. A band vanishes
 B. M line vanishes
 C. H zone elongates
 D. I band is steady
- Q.64** Which of the following terms is best defined as a mature, motile, and haploid sperm cell produced during spermatogenesis?
 A. Spermatid
 B. Spermatogonium
 C. Secondary spermatocyte
 D. Spermatozoa
- Q.65** The process that does not occur during expiration is:
 A. Intercostal muscles are relaxed
 B. Ribs are relaxed
 C. Muscles of diaphragm are relaxed
 D. Lungs are relaxed
- Q.66** Visible light used in photosynthesis ranges from nm?
 A. 300-700
 B. 350-750
 C. 380-750
 D. 390-790
- Q.67** The property of water due to which it works as a temperature stabilizer and hence protect living organisms from sudden thermal changes is?
 A. Dipole nature
 B. High specific heat of vaporization
 C. High specific heat capacity
 D. Its liquid state
- Q.68** Carbonic anhydrase is found in:
 A. RBC
 B. Parabronchi
 C. Pleura
 D. None of these

PHYSICS

- Q.69** Magnetic Field lines move from _____
A. North to south
B. South to north
C. East to west
D. West to east
- Q.70** Which of the following statements is true?
A. Power is proportional to voltage only
B. Power is proportional to current only
C. Power is neither proportional to voltage nor to the current
D. Power is proportional to both the voltage and current
- Q.71** The displacement is a:....
A. Vector quantity
B. Scalar quantity
C. Neither vector nor scalar quantity
D. Dimensionless quantity
- Q.72** Spectral lines is like a _____ of absorbed or emission energy in a spectrum
A. Charged pattern
B. Fingerprint pattern
C. Discharged pattern
D. None of these
- Q.73** Aluminum is:....
A. An excellent conductor
B. A semiconductor
C. An insulator
D. A photoconductor
- Q.74** Which of the following types of force can do no work on the particle upon which it acts
A. Frictional force
B. Gravitational force
C. Centripetal force
D. Elastic force
- Q.75** The fractional change in resistance per kelvin is known as
A. Coefficient in resistance
B. Temperature coefficient of resistance
C. Resistance
D. None of these
- Q.76** Weber is the unit of _____
A. Magnetic flux
B. Electric flux
C. Both a or b
D. None of these
- Q.77** In fission reactions when nucleus breaks heat energy is
A. Released
B. Absorbed
C. Reflected
D. Any of these
- Q.78** In a half wave rectification, the diode conducts during
A. Both half cycles
B. Positive half
C. Negative half
D. None of these
- Q.79** All changes which occur suddenly or which involve friction or dissipation of energy through conduction, convection or radiation are:....
A. Irreversible changes
B. Chemical changes
C. Cyclic changes
D. Reversible changes
- Q.80** A body is moving in a circle at constant speed. Which statement is true?
A. The resultant force acts towards the centre of the circle
B. There is no resultant force
C. The resultant force acts away from the centre of the circle
D. None of these
- Q.81** The energy of electron in nth orbit of Hydrogen atom is
A. -0.0136 eV
B. -1.136 eV
C. 0.136 eV
D. None of these
- Q.82** Internal energy is _____ of path
A. Independent
B. Dependent
C. Highly dependent
D. Not enough information

- Q.83** A park has an outdoor organ. When the air temperature increases, the fundamental frequency of one of the organ pipes:....
- A. Is impossible to determine B. Stays the same
C. Decreases D. Increases
- Q.84** Michelson's Interferometer works on the principle of:
- A. Interference of light B. Refraction of light
C. Reflection of light D. Diffraction of light
- Q.85** If mass and speed both are doubled kinetic energy will
- A. Increases 4 times B. Increases 6 times
C. Increases 8 times D. Increases 10 times
- Q.86** Find the Lorentz force of a charge 2.5C having an electric field of 5 units and magnetic field of 7.25 units with a velocity 1.5m/s.
- A. 39.68 B. 68.93
C. 89.39 D. 63.98
- Q.87** The reverse process of pair production is known as :
- A. Annihilation of energy B. Anti Pair production
C. Materialization of matter
D. Annihilation of practical into its antiparticle
- Q.88** The heat sensitive device whose resistivity changes very rapidly with change of temperature is called a :
- A. Resistor B. Super-conductor
C. Thermocouple D. Thermistor
- Q.89** A gardener move a lawn roller through a distance of 50 m. Applied force is 50 N inclined at 60 degree of direction of motion what will be the work done by the gardener
- A. 1250 J B. 2500 J
C. -1250 J D. -2500 J
- Q.90** A circuit that adds positive or negative dc voltage to an input sine wave is called
- A. Clamper B. Clipper
C. Diode clamp D. Limiter
- Q.91** Consider a charge q is placed in a region where both electric and magnetic fields are present. The charge will experience:...
- A. Both electric and magnetic forces B. Only electric force
C. Only magnetic force D. No force at all
- Q.92** If the velocity varies linearly with time then acceleration is called
- A. Nonuniform B. Discrete
C. Instantaneous D. Uniform
- Q.93** Whenever a transverse wave, travelling in a rarer medium, encounters a denser medium.
- A. An incident crest on reflection disappears
B. An incident trough on reflection remains trough
C. An incident crest on reflection becomes a trough
D. An incident crest on reflection remains crest
- Q.94** If an object moves with constant speed then its acceleration always is
- A. Zero B. Nonzero
C. Infinite D. None of these
- Q.95** Atomic spectra is a _____ spectra
- A. Continuous B. Discrete
C. Both A) and B) D. None of these

- Q.96** If radial distance is 2 m and linear acceleration is 2 m the angular acceleration becomes
- A. 4
B. 1/4
C. 6
D. 1
- Q.97** A charged particle enters in a strong magnetic field, its K.E
- A. Decreases
B. Increases then decreases
C. Becomes zero
D. Remains constant
- Q.98** Which water is used to reduce the speed of fast moving neutrons
- A. Salty water
B. Pure water
C. Heavy water
D. Muddy water
- Q.99** What is the radius of circular path, if particle has mass m and charge q
- A. $r = qb/m$
B. $r = mv/B$
C. $r = mv/qB$
D. $r = mvr/qB$
- Q.100** For a reversible process, necessary condition is
- A. Heat energy should be zero
B. Process must be fast
C. Process must be quasistatic
D. Process must not be in equilibrium
- Q.101** An immersion heater of 400 watts kept on for 5 hours will consume electrical power of
- A. 2KWh
B. 20KWh
C. 6KWh
D. 12KWh
- Q.102** $E=F/q$ is the formula for?
- A. Electrical field strength
B. Electrical field intensity
C. Both of them
D. None of them
- Q.103** The number of diodes in bridge rectifier is
- A. 4
B. 3
C. 2
D. 5
- Q.104** When the length of the conductor is doubled and the area of cross-section remains the same then its resistance
- A. Remains the same
B. Will be doubled
C. Will become half
D. Will increase by four times
- Q.105** 1 microvolt is
- A. 1×10^{-3} V
B. 1×10^{-4} V
C. 1×10^{-5} V
D. 1×10^{-6} V
- Q.106** To start a fusion reaction, energy required is
- A. Small
B. Large
C. Infinite
D. Zero
- Q.107** The net force acting in an inertial frame is
- A. Positive
B. Negative
C. Zero
D. None of these
- Q.108** A wheel whose radius is 50 cm rotates at an angular velocity of 6 rad/sec. The linear velocity of the rim of the wheel is closest to
- A. 1.5 m/s
B. 4.5 m/s
C. 3.0 m/s
D. 7.5 m/s
- Q.109** When electron series terminates on 4th orbit ____ series is obtained
- A. Balmer
B. Pfund
C. Paschen
D. None of these
- Q.110** If radius of object is doubled the centripetal force acting on same object becomes
- A. Double
B. Half
C. Eight times
D. Remain same

- Q.111** In nuclear fission, 0.1% of mass is converted into energy. The energy released by the fission of 1 kg mass will be.....J
 A. 9×10^{19} B. 9×10^{17}
 C. 9×10^{16} D. 9×10^{13}
- Q.112** The length and radius of an electric resistance of a certain wire are doubled simultaneously, then the:
 A. Resistance will be doubled and specific resistance will be halved
 B. Resistance will be halved and specific resistance will remain unchanged
 C. Resistance will be halved and the specific resistance will be doubled
 D. Resistance and specific resistance will both remain unchanged
- Q.113** An ideal gas of n moles is enclosed in a container at a constant pressure p . The graph between volume of gas and its absolute temperature is a straight line. What is the gradient of the graph?
 A. nR/p B. nR/p
 C. n/p D. n/p
- Q.114** Consider a car is travelling for one hour. Which of the following cases has the greatest average velocity in east-direction?
 A. Car travels 20 km due east
 B. Car travels 60 km due east, then turns around and travels 40 km due west
 C. Car travels 70 km due east
 D. Car travels 30 km due west, then turns around and travels 30 km due east
- Q.115** To get a peak load voltage of 40V out of a bridge rectifier, what should be the approximate rms value of secondary voltage?
 A. 0V B. 14.4V
 C. 28.3V D. 56.6V
- Q.116** An object is displaced from position vector $r_1 = (2i + 3j)m$ to $r_2 = (4j + 6k)m$ under a force $F = (3x^2 i + 2y j) N$. Find the work done by this force
 A. 55 J B. 83 J
 C. 0 D. -83 J
- Q.117** A tuning fork A produces 4 beats with another tuning fork B. If the frequency of tuning fork B is 320 Hz, then the frequency of tuning fork A is:
 A. 320×4 B. $320 / 4$
 C. $320 + 4$ D. 320
- Q.118** Calculate the charge passing through the circuit if its current is 10 Amp and the recorded time is 15 seconds
 A. 1500 Coulomb B. 150 Coulomb
 C. 13400 Coulomb D. 140 Coulomb
- Q.119** The white laser cannot be produced because
 A. It is not coherent B. It has low energy
 C. It diffracts easily D. All of these
- Q.120** What is the internal energy change in system that has absorbed 800J of heat and work done is 500J?
 A. 200J B. 550J
 C. 600J D. 300
- Q.121** Scattering is a process involving _____
 A. Reflection B. Refraction
 C. Diffraction D. None of these
- Q.122** The increase in the capacitance of a capacitor due to the presence of dielectric is due to:..
 A. Electric polarization of dielectric B. Density of dielectric

- C. Volume of dielectric
D. Magnetic dipole moment
- Q.123** Absorbed dose D is defined as energy absorbed from ionization radiation per unit ____
A. Mass
B. Charge
C. Time
D. Area
- Q.124** If magnetic field is doubled then magnetic energy density becomes
A. Four times
B. Two times
C. Three times
D. Six times

CHEMISTRY

- Q.125** As reaction starts instantaneous rate is
A. Higher than Average rate
B. Lower Than average rate
C. Equal to average rate
D. None of these
- Q.126** Atoms in solids are
A. Loosely Packed
B. In random motion
C. Excited
D. Closely packed
- Q.127** The mass of one mole of electron is
A. 1.8mg
B. 0.184mg
C. 0.55 mg
D. 0.64 mg
- Q.128** Elements of group 7A are called
A. Good loser
B. Good gainer
C. Energetic
D. Stable
- Q.129** A piston in a cylinder is a part of
A. System
B. Surroundings
C. Boundary
D. None of These
- Q.130** The Diameter of DNA is maintained due to ____?
A. Dipole dipole forces
B. Induced dipole forces
C. Chemical bond
D. H-bond
- Q.131** A reaction with a tendency of occurring in forward and backward direction simultaneously is termed as
A. Irreversible
B. Unidirectional
C. Multidirectional
D. Reversible
- Q.132** Which of the following gives Markovnikov's product with Propene?
A. HBr
B. $\text{H}_2\text{SO}_4/\text{H}_2\text{O}$
C. HBr
D. All of these
- Q.133** Molten sodium burns with brilliant yellow flame in a chlorine atmosphere to form ____?
A. NaCl
B. NaOH
C. NaBr
D. ClO
- Q.134** The product of the nucleophilic addition of aldehyde and ketones is called as ____?
A. Alkanolone
B. Adduct
C. Cyanohydrin
D. Nucleophilic product
- Q.135** Which enzyme causes the hydrolysis of fats ?
A. Urease
B. Lipase
C. Maltase
D. Protease
- Q.136** What is the pH of human blood?
A. 7.45
B. 7.35
C. 7
D. 7.53
- Q.137** Molecular Solids are held together by weak intermolecular forces called
A. Van der Waal forces
B. Dipole Dipole Interaction

- C. Both A and B
D. Electrostatic Forces
- Q.138** Which of the following can form a chelate
A. Ammine
B. Oxalate
C. Carbonyl
D. Cyano
- Q.139** The 'm' quantum number describes the _____ of electron
A. Energy level
B. Orbital or subshell
C. Orientation of orbital
D. Spin of electron
- Q.140** Adhesive nature of honey and glue is due to presence of _____?
A. H-bonding
B. Dipole dipole forces
C. Ionic forces
D. Debye force
- Q.141** Which one of the following is correct structure of benzene?
A. Tetrahedral
B. Hexagonal planar
C. Hexagonal irregular
D. Trigonal planar
- Q.142** Which is the correct order of decreasing acidity of Lewis acids?
A. $\text{BBr}_3 > \text{BCl}_3 > \text{BF}_3$
B. $\text{BF}_3 > \text{BCl}_3 > \text{BBr}_3$
C. $\text{BCl}_3 > \text{BF}_3 > \text{BBr}_3$
D. $\text{BBr}_3 > \text{BF}_3 > \text{BCl}_3$
- Q.143** Which one of the following is not a secondary alkyl halide?
A. 2-Chloropropane
B. 3-Bromobutane
C. 2,3-dichloropentane
D. 2-chloro-2-methylpentane
- Q.144** Out of 28 natural isotopes, how many have even atomic number and mass number
A. 152
B. 153
C. 154
D. 155
- Q.145** The probability of finding an electron _____ even at large distances from the nucleus
A. Becomes one
B. Becomes zero
C. Never becomes zero
D. Varies from 0 to 1
- Q.146** Which product is obtained by Distillation of calcium acetate ?
A. Acetone
B. Acetaldehyde
C. Formaldehyde
D. Carboxylic acid
- Q.147** The amount of heat required to form vapors of one mole of a liquid at its boiling point is called as?
A. Molar heat of fusion
B. Molar heat of vapourization
C. Molar heat of sublimation
D. Molar heat of Evaporation
- Q.148** The density of a gas X is 6 times the density of a gas Y. If the molecular mass of X is M then what will be molecular mass of Y
A. $M/6$
B. $2M$
C. $6M$
D. $6/M$
- Q.149** Which of the following ion is stable ?
A. Ethoxide ion
B. Tertiary Alkoxide ion
C. Secondary anion
D. Phenoxide ion
- Q.150** The solution of phenol in water has a pH of about?
A. 4-5
B. 3-5
C. 2-4
D. 5-6
- Q.151** Boiling point of carboxylic acids are high due to?
A. Polarity of carbonyl group
B. Due to methyl group
C. Due to H-Bonding
D. Due London forces
- Q.152** When a catalyst is added to a reversible reaction, at equilibrium state the value of equilibrium constant
A. Decreases
B. Increases

- C. Remains unchanged
D. First decrease then increase
- Q.153 Why oxidation of ketones is not easy _____?**
 A. Because they involve breaking of C-O bond
 B. Because it involve breaking of C-C bond
 C. Because it involve breaking of C-H bond
 D. Because it involve breaking of C=C bond
- Q.154 In the enthalpy relation, $\Delta H = (\eta)p + \Delta(PV)$ the value $\Delta(PV)$ can be neglected for the reactions involving ____?**
 A. Gases
 B. Liquids
 C. Liquids and solids
 D. Liquids and Gases
- Q.155 If two amino acids are joined by peptide bond than the molecule is called as _____?**
 A. Polypeptide
 B. Peptide
 C. Dipeptide
 D. Tripeptide
- Q.156 Carboxylic acids are produced by the oxidation of _____?**
 A. Alcohol
 B. Aldehyde
 C. Ketone
 D. All of these
- Q.157 The formation of negative ion is a/an _____ process**
 A. Exothermic
 B. Endothermic
 C. Both A & B
 D. None of these
- Q.158 Homocyclic compounds are also called as _____?**
 A. Heterocyclic compounds
 B. Alicyclic Compounds
 C. Aliphatic compounds
 D. Carbocyclic compounds
- Q.159 Which of the following oxidizing agents can oxidize benzene?**
 A. $KMnO_4$
 B. $K_2Cr_2O_7$
 C. $KHMnO_4$
 D. V_2O_5
- Q.160 The isomerism in which compounds have different number of carbon atoms on both sides of the functional group is called as?**
 A. Tautomerism
 B. Metamerism
 C. Geometrical Isomerism
 D. Position isomerism
- Q.161 The method used for preparation of phenol is**
 A. Kolbe's method
 B. Dow's method
 C. Nitration
 D. Williamson's synthesis
- Q.162 What is the common name of 2-methyl-2-chloropropane ?**
 A. Secondary propyl chloride
 B. Tertiary butyl chloride
 C. Secondary butyl chloride
 D. Isobutyl Chloride
- Q.163 One atmosphere is the force of _____ long column of mercury on an area of $1cm^2$ at c**
 A. 76cm
 B. 76mm
 C. 76dm
 D. 76pm
- Q.164 The shape of KNO_3 above $128^\circ C$ is**
 A. Cubic
 B. Orthorhombic
 C. Rhombohedral
 D. Tetragonal
- Q.165 If the difference of electronegativity is 1.7 or more than that, the bond formed is said to be**
 A. Ionic bond
 B. Covalent bond
 C. Metallic bond
 D. Chemical bond
- Q.166 This gas cannot be liquefied by Linde's method**
 A. Methane
 B. Carbon dioxide
 C. Hydrogen
 D. Helium

- Q.167 Aluminum, has 3 electrons in its valence shell, therefore it has the ability to form ion**
 A. Monovalent
 B. Divalent
 C. Trivalent
 D. Tetravalent
- Q.168 The value of energy obtained for the electron in the nth orbit of hydrogen atom is in**
 A. Joules
 B. Joules/atom
 C. Kilojoules
 D. Kilojoules/atom
- Q.169 The molecules like CH_4 , CCl_4 or SiH_4 show attitude of non-polarity due to**
 A. Structure
 B. Symmetry of structure
 C. Nature of structure
 D. Charges on structure
- Q.170 Number of Electrons added on both sides of oxidation and reduction half reactions are balanced**
 A. At the start of procedure
 B. Somewhere in the middle of balancing
 C. After Adding two Half reactions
 D. Before Adding two Half Reactions
- Q.171 Conductivity of a solution changes with change in**
 A. Reactant Ions Concentration
 B. Temperature of mixture
 C. Adding an Impurity
 D. By catalyst
- Q.172 Those elements in which d or f orbitals are in the process of completion are called**
 A. Transition elements
 B. Typical transition elements
 C. Outer transition elements
 D. Inner transition elements
- Q.173 If pressure is reduced to one half and temperature of a gas is doubled, what will be volume**
 A. Reduced 4 times
 B. Increased 4 times
 C. Remains same
 D. Gets doubled
- Q.174 H_3O^+ ions act as**
 A. Base
 B. Catalyst
 C. Buffer
 D. Acid
- Q.175 Activator of carbonic anhydrase enzyme is _____.**
 A. Mn^{2+}
 B. Mg^{2+}
 C. Zn^{2+}
 D. None of these
- Q.176 Which of the following has higher boiling point?**
 A. NH_3
 B. H_2O
 C. HF
 D. CH_4
- Q.177 Iodoform test is performed to distinguish between**
 A. Alcohols and phenols
 B. Methanol and ethanol
 C. Primary and secondary alcohols
 D. Phenols and ethers
- Q.178 Glucose ($\text{C}_6\text{H}_{12}\text{O}_6$) is the most important nutrient in a cell for generating chemical potential energy, what is the mass percent of carbon in 1.5g of sample**
 A. 33%
 B. 40%
 C. 53.3%
 D. 6.67%
- Q.179 Spectrum is the visual display or _____ of component of white light when it is passed through prism**
 A. Rarefaction
 B. Radiation
 C. Collection
 D. Dispersion

Q.180 What is the correct equation to find Heat of neutralization using glass calorimeter ?

A. $q = m s \Delta T$

B. $E = q m \Delta T$

C. $E = m s \Delta T$

D. $q = m c \Delta T$

ENGLISH

Q.181 _____ apple a day keeps the doctor away.

A. A

B. An

C. The

D. No article

Q.182 The elephant is _____ of the biggest land mammals.

A. Amongst

B. Single

C. Lone

D. One

Q.183 Choose the correct sentence.

A. Belgium and france fought over who would host the olympic games?

B. Belgium and France fought over who would host the Olympic Games.

C. Belgium and France: fought over who would host the Olympic Games!

D. Belgium and France fought over who would host the olympic games.

Q.184 He _____ since evening.

A. Is sleeping

B. Has been sleeping

C. Was sleeping

D. Slept

Q.185 I am _____ tea now.

A. Taking

B. Takes

C. Took

D. Take

Q.186 Your hands and feet _____ nearly half the bones in your body.

A. Contained

B. Contains

C. Contain

D. Containing

Q.187 I want to become a writer.

A. Declarative

B. Imperative

C. Interrogative

D. Exclamatory

Q.188 Where is _____

A. Wheres

B. Where's

C. Wheres'

D. Wher'es

Q.189 Would not

A. Would'nt

B. Wouldn't

C. Woul'dnt

D. Wouldnt'

Q.190 If you lend him a book (A)/ he will lend it (B), to someone else (C) and never you will get it back. (D)

A. If you lend him a book

B. He will lend it

C. To someone else

D. And never you will get it back.

Q.191 Because of his _____ habits, he could not save much money.

A. Extravagant

B. Frugal

C. Unsavoury

D. Bad

Q.192 Quiver

A. Tremble

B. Move

C. Tremendous

D. Pacify

Q.193 This is _____ good company to work with.

A. A

B. An

C. The

D. No article

- Q.194** All that _____ is not gold.
 A. Glitter
 B. Has glittered
 C. Glitters
 D. Is glittering
- Q.195** When did you _____ smoking? I am really happy to see that.
 A. Cut off
 B. Give up
 C. Make up
 D. Throw away
- Q.196** Choose the correct spelling of the word
 A. Benifet
 B. Benefet
 C. Benefit
 D. Benifit
- Q.197** A girl _____ (ride) an elephant around the ring.
 A. Ride
 B. Was riding
 C. Rode
 D. Will ride
- Q.198** prune
 A. lend
 B. Reduce
 C. Expand
 D. Prolong
- Q.199** Choose the correct spelling of the word
 A. Possesion
 B. Possession
 C. Posesion
 D. Posession
- Q.200** Choose the tense: " He bought a new house last month".
 A. Present
 B. Past
 C. Future
 D. None

LOGICAL REASONING

Statements and Actions

- Q.201** Statement The ratio of poverty is at alarming point in our country. I. The Government needs to take step for economic and development growth. II. The lower class area of people in our country needs to be supported as most of them lives hand to mouth.
 A. Both of them follows
 B. None of them follows
 C. Only I follows
 D. Only b follows

Complete the series

- Q.202** Complete the series AB, EF, _____, MN
 A. IJ
 B. RS
 C. WX
 D. MN

Fact Checking

- Q.203** Fact 1 All hats have brims Fact 2 there are black hats and blue hats Fact 3 Baseball caps are hats If the above three statements are facts than which of the following statement will also be a fact I. All caps have brims II. Some baseball caps are blue III. Baseball caps have no brims
 A. I only
 B. II only
 C. III only
 D. None of them is a fact

Dependent Causes/ Independent Causes/

- Q.204** Statement: There is considerable reduction in the number of people affected by water borne diseases in city A during this rainy season. The government has opened four new civil hospitals in City A in the beginning of the year.
 A. Statement I is the cause and statement II is its effect.
 B. Statement II is the cause and statement I is its effect
 C. Both the statements I and II are independent causes
 D. Both the statements I and II are effects of independent causes
- Essential parts

- Q.205** What should come next to it Recipe

A. Desserts

B. Spoon

C. Utensils

D. Cookbook

Statement and Argument

Q.206 Statement Should religion be banned? Arguments (I) Yes. It develops fanaticism in people. (II) No, Religion binds people together.

A. Only argument I is strong

B. Only argument II is strong

C. Either I or II is strong

D. Neither I nor II is strong

Dependent Causes/ Independent Causes/

Q.207 I. The third-degree criminal was imprisoned for three life sentences. II. The security arrangements by the police were more than adequate.

A. Statement I is the cause and statement II is its effect.

B. Statement II is the cause and statement I is its effect.

C. Both statements I and II are independent causes

D. Both statements I and II are the effects of independent cause.

Statements and Actions

Q.208 Statement The Management of School M has decided to give free breakfast from next academic year to all the students in its primary section through its canteen even though they will not get any government grant. Courses of Action (I) The school will have to admit many poor students who will seek admission for the next academic year. (II) The canteen facilities and utensils have to be checked and new purchases to be made to equip it properly. (III) Funds will have to be raised to support the scheme for years to come.

A. Only II and III follow

B. Only III and I follow

C. Only I and II follow

D. Only I follows

Statements and Actions

Q.209 Statement The availability of imported fruits has increased in the indigenous market and so the demand for indigenous fruits has been decreased. I. To help the indigenous producers of fruits, the Government should impose high import duty on these fruits, even if these are not of good quality. II. The fruit vendors should stop selling imported fruits. So that the demand for indigenous fruits would be increased.

A. Both of them follow

B. None of them follows

C. Only I follows

D. Only II follows

Complete the series

Q.210 Discernible and Palpable have _____ number of same letter

A. 2

B. 3

C. 5

D. 4

As we know there is lot of mistakes in answer keys of
PMC Practice tests, so I have decided to rectify all in
proper in SKN STUDY GROUP

Join it