

PMC PRACTICE TEST 08

PHYSICS

- Q.1 Volts / Ampere = _____
A. Ohm
B. Ohm meter
C. Pascal
D. None of them
- Q.2 Decrease in velocity per unit time is called
A. Acceleration
B. Positive acceleration
C. Deceleration
D. Uniform acceleration
- Q.3 For ideal step-up transformer P_s ____ P_p .
A. Equal to
B. Greater than
C. Less than
D. None of these
- Q.4 Charge of photon is
A. 0
B. Positive
C. Negative
D. Positive/negative
- Q.5 As the wavelength of light used increases, the distance between bright fringes in the interference pattern:.
A. Increases
B. Decreases
C. Remains same
D. None of these
- Q.6 The _____ reaction is an example of renewable source of energy
A. Fission
B. Fusion
C. Both a and b
D. None of these
- Q.7 Which light has more velocity
A. He-Ne laser
B. White
C. Yellow
D. All are equal
- Q.8 To measure an A.C. voltage by using an A.C. potentiometer, it is desirable that the supply for the potentiometer is taken
A. From a source which is not the same as the unknown voltage
B. From a battery
C. From the same source as the unknown voltage
D. Any of the above
- Q.9 The unit of electric field strength is:....
A. V / C
B. N / C
C. N / V
D. N m
- Q.10 Under which conditions, a real gas approximate to an ideal gas?
A. Pressure = high density = high
B. Pressure = low density = high
C. Pressure = high density = low
D. Pressure = low density = low
- Q.11 Half life of a radiation active element is that period in which half of the atoms
A. Diffuse
B. Decompose
C. Disturbed
D. Decay
- Q.12 A constant force $F = 2i + 3j + 4k$ is applied on a body what will be the work done to move a body 5 m in z- direction
A. 0
B. 10 J
C. 45 J
D. 20 J
- Q.13 Instantaneous velocity is defined at
A. Particular displacement
B. Instant acceleration
C. Instant time
D. Average time
- Q.14 7 Radian is equal to _____ degree approximately
A. 300
B. 400
C. 500
D. None of these
- Q.15 An object undergoes simple harmonic motion. Its amplitude is x_0 . The speed of the object is v when its displacement is $x_0/3$. What is the speed when its displacement is x_0 ?
A. $v/3$
B. $2v$
C. $3/2 v$
D. 0
- Q.16 Which of the following is not a unit of angular displacement:

- A. Degree
C. Meters
- B. Revolution
D. Radian
- Q.17 The K.E. of a body of mass 2kg and momentum of 2Ns is :
A. 1J
B. 2J
C. 3J
D. 4J
- Q.18 The spectrum of perfect black body is
A. Line
B. Continuous
C. Band
D. All of these
- Q.19 Which of this is constant in adiabatic process
A. Total heat
B. Work done
C. Entropy
D. Both a) and c)
- Q.20 Which source is associated with a line emission spectra?
A. Electric fibre
B. Neon Street sign
C. Red traffic light
D. Sun
- Q.21 How can a magnetic field be produced?
A. Using a permanent magnet
B. Electric current
C. Using a temporary magnet
D. Using a permanent magnet or electric current
- Q.22 If the peak voltage is 9V, calculate the peak to peak voltage.
A. 9V
B. 18V
C. 4.5V
D. 0V
- Q.23 You have three capacitors, each of 2 μC . In which of the following combinations of the three capacitors, the resultant capacitance is 3 μC ?
A. All three capacitors in series
B. Two capacitors are in series, one in parallel
C. Two capacitors are in parallel, one in series
D. All three capacitors in parallel
- Q.24 Half wave rectifier passes only
A. Lower half cycle
B. Upper half cycle
C. Both cycles
D. None of them
- Q.25 The sum of absorption and transmission of light in a medium is equal to
A. Incident light
B. Reflected light
C. Any of a or b
D. None of these
- Q.26 Polarization explains light is
A. Electric in nature
B. Magnetic in nature
C. Both a & B
D. None of these
- Q.27 x-rays used to measure
A. Fractures
B. Temperature
C. Blood pressure
D. All of these
- Q.28 A common material for cushioning objects in packages is made by trapping bubbles of air between sheets of plastic. Is this material more effective at keeping the contents of the package from moving around inside the package on
A. A hot day
B. A cold day
C. Either hot or cold days
D. There is not enough information to say
- Q.29 A car accelerates from 0 to 72 km/h in 5 seconds. If it has wheels of diameter 50 cm. the angular acceleration of its wheels is
A. 1.6 rad/s²
B. 8 rad/s²
C. 16 rad/s²
D. 160 rad/s²
- Q.30 Light of wavelength 450 nm is incident on a diffraction grating on which 5000 lines/cm have been ruled. Determine the angle corresponding to third order.
A. 13
B. 26
C. 42.5
D. 39.5
- Q.31 A vibrating string have a little sound. However, when attached with a board then sound have a greater intensity. It is because: ...
A. The string vibrates with more energy
B. The sound is concentrated over smaller area

- C. The speed of sound is greater in board
D. The energy leaves the board at a greater rate
- Q.32** Two pulses move in opposite directions on a string and are identical in shape except that one has positive displacements of the elements of the string and the other has negative displacements. At the moment the two pulses completely overlap on the string, what happens?
 A. The energy associated with the pulses has disappeared
 B. The string does not move afterwards
C. The string forms a straight line for a moment
 D. Pulses vanished and will not appear again
- Q.33** For a linear relationship between displacement and time we get d-t graph as
A. Straight line passing through origin
 B. Straight line parallel to t- axis
 C. Quadratic relationship
 D. Cubic relationship
- Q.34** Which one of the following bulbs has the least resistance?
 A. 100W
 B. 200W
 C. 300W
D. 60W
- Q.35** Terminal potential difference of a cell
 A. Increases with increase in its internal resistance
B. Decrease with increase in internal resistance
 C. Is independent of its internal resistance
 D. None of these
- Q.36** In a conductor, if 6-coulomb charge flows for 2 seconds. The value of electric current will be
A. 3 ampere
 B. 3 volts
 C. 2 amperes
 D. 2 volts
- Q.37** Farad is defined as:
 A. Newton / volt
B. Coulomb / volt
 C. Coulomb / joule
 D. Coulomb / newton
- Q.38** 220V, 50 Hz AC supply is connected across a resistor of 50 k ohms. The current at time t Seconds, assuming that it is zero at $t = 0$, is
A. $4.4 \sin(314t)$ Ma
 B. $4.4 \sin(157t)$ mA
 C. $6.2 \sin(314t)$ Ma
 D. $6.2 \sin(157t)$ Ma
- Q.39** The coupling coefficient of perfectly coupled coil is
A. Zero
B. 1
 C. More than 1
 D. Infinite
- Q.40** What is the angular frequency during the circular motion?
 A. qm/B
 B. m/qB
C. qB/m
 D. qmB
- Q.41** A circular loop of radius 2 m placed having area in the direction of magnetic field of 100 T, flux will be
A. 1296 wb
 B. 12.96 wb
 C. 1190 wb
 D. 1426 wb
- Q.42** A full wave rectifier uses load resistor of 1500Ω . Assume the diodes have $R_f=10\Omega$, $R_r=\infty$. The voltage applied to diode is 30V with a frequency of 50Hz. Calculate the AC power input
 A. 358.98mW
B. 275.2 mW
 C. 145.76 mW
 D. 456.78 Mw
- Q.43** A first harmonic stationary sound wave is produced in the air of the cylinder, which is half filled with water. More water is added to the cylinder, now first harmonic stationary wave is produced with a different frequency. What is the change in frequency and the nature of displacement in air at the water surface?
 A. Nature of displacement = antinode change in frequency = decrease
 B. Nature of displacement = antinode change in frequency = increase
C. Nature of displacement = node change in frequency = increase
 D. Nature of displacement = node change in frequency = decrease
- Q.44** An Ionic atom which is equivalent to hydrogen atom has wavelength equal to $1/4$ th of hydrogen lines is

- A. He^+
 B. Li^{++}
 C. Ne^{+9}
 D. Na^{10+}
- Q.45 The energy stored in a parallel plate capacitor is 24 J. What is the potential difference between the plates if the capacitance of the capacitor is $3 \mu\text{F}$?
 A. 4 Kv
 B. 16 kV
 C. 54 kV
 D. 8 kV
- Q.46 In which of the following processes the heat is neither absorbed nor released by a system?
 A. Isochoric
 B. Isothermal
 C. Adiabatic
 D. Isobaric
- Q.47 4000 Coulomb charges were passing from the wire for about 12 seconds. Estimate the current during this process?
 A. 333.3 ampere
 B. 333.33 volts
 C. 666.67 ampere
 D. None of them
- Q.48 Power transfer from primary to secondary is through flux linkage, so the primary and secondary coils should be wound in such a way that flux coupling between them is
 A. Min
 B. Constant
 C. Zero
 D. Max
- Q.49 Is it possible to visualize magnetic flux lines
 A. Yes directly we can see with eyes
 B. We need microscope
 C. We need telescope
 D. All cases are not possible
- Q.50 What will be the de - Broglie wavelength when the kinetic energy of the electron increases by 5 times?
 A. $\sqrt{5}$
 B. 5
 C. $1/\sqrt{5}$
 D. $1/5$
- Q.51 A monochromatic light is incident on two slits and interference pattern is produced on screen at the distance L. Now one slit is covered, no light coming from it. What is the change in pattern on the screen?
 A. The width of central maximum is decreased
 B. The width of outer maximum is decreased
 C. The intensity of central maximum will increase
 D. Less number of fringes will be observed
- Q.52 When a stone is thrown horizontally with 2 m/s from a building of height 5 m then just before hitting ground its acceleration is
 A. 12 m/s^2
 B. 13 m/s^2
 C. 9.8 m/s^2
 D. 7.6 m/s^2
- Q.53 The ratio of angular speed of the minute hand of clock to that of its hour hand is :
 A. 3600:1
 B. 60:1
 C. 24:1
 D. 12:1
- Q.54 Sample of radioactive element with initial mass of 24 gm decayed to 3 gm in 36 minutes. How much of original sample remained after the first 12 minutes?
 A. 12 g
 B. 6 g
 C. 2 g
 D. 8 g
- Q.55 A particle of mass 10 kg is moving with velocity $10(x)^{1/2}$, here x is displacement. The work done by net force during the displacement of particle from $x=4$ to $x=9$
 A. 1250 J
 B. 1000J
 C. 3500J
 D. 2500 J
- Q.56 A 200-watt bulb operates in a 220V circuit. Find the current.
 A. 0.9 Amp
 B. 0.6 Amp
 C. 2 Amp
 D. 3 Amp

BIOLOGY

- Q.57 In parthenocarpy which levels are high in ovaries?
 A. Gibberellins
 B. Cytokinins

- C. Auxins**
- Q.58 What is the resolution power of a compound microscope?
A. 2 micrometer
 B. 2-4A
 C. 24 micrometer
 D. 24A
- Q.59 A chemical component that is NOT found in all viruses is:
 A. Protein
B. Lipids
 C. DNA
 D. RNA
- Q.60 Which of the following is not a component of HIV?
 A. RNA
 B. Protein
C. Ribosomes
 D. Reverse transcriptase
- Q.61 Chlorophylls are found embedded in the _____ membranes?
 A. Stroma
 B. Grana
C. Thylakoid
 D. Intergrana
- Q.62 Which of the following is not found in series protostomia?
 A. Annelida
 B. Arthropoda
 C. Mollusca
D. Echinodermata
- Q.63 All of the following about reflex action are true EXCEPT:
A. It is voluntary
 B. It is involuntary
 C. It is found in higher animals
 D. All of these
- Q.64 Mating with non-relatives is known as?
 A. Inbreeding
B. Outbreeding
 C. Breeding
 D. None of these
- Q.65 Vascular Cambium initially appears as actively dividing cells between?
 A. Primary Xylem and secondary xylem
 B. Primary xylem and secondary phloem
 C. Secondary xylem and secondary phloem
D. Primary xylem and primary phloem
- Q.66 In competitive inhibition, the two things that binds to enzyme active site are?
 A. Substrate
 B. Inhibitors
 C. Catalyst
D. Both A and B
- Q.67 ABO blood group system was discovered in:
 A. 1811
 B. 1801
 C. 1911
D. 1901
- Q.68 Which of the following is a chemical link between catabolism and anabolism?
 A. AMP
B. ATP
 C. ADP
 D. All of these
- Q.69 The first bacteria ever to be isolated is?
 A. Coccus
 B. Vibrio
 C. Spirochete
D. Bacillus
- Q.70 The shape of gray matter is:
 A. Spherical
B. Butterfly
 C. Mosquito
 D. Rectangular
- Q.71 The number of spermatids produced from primary spermatocytes is?
 A. 1
 B. 2
 C. 3
D. 4
- Q.72 Lymph nodes may be located in the human body in the tissues of the:
 A. Stomach
 B. Thyroid gland
 C. Brain
D. Groin and neck
- Q.73 Which structure of protein gives information about the folding of a protein?
 A. Primary structure
 B. Secondary structure
C. Tertiary structure
 D. Quaternary structure
- Q.74 Changes in sarcomere length are due to the filaments pulled along the thick filaments in the direction of the:
 A. H zone
B. M line
 C. Z line
 D. I band
- Q.75 A certain type of plant is only tall when it has a heterozygous genotype. If two heterozygous plants are crossed, what is the probability their offspring will also be tall?
 A. 25%
B. 50%
 C. 75%
 D. 1

- Q.76 Chlorophylls mainly absorb light of which wavelength?**
 A. Orange blue
 B. Yellow orange
 C. Violet red
D. Orange red
- Q.77 In the air passageway, the incoming air passes from the pharynx to**
 A. Bronchi
 B. Bronchioles
 C. Windpipe
D. Larynx
- Q.78 Biorhythms are called circadian which means about one day so they are also called?**
 A. Diurnal tempo
 B. Diurnal time
 C. Diurnal rhythms
 D. All of these
- Q.79 Robert Koch discovered bacteria that cause**
 A. Tuberculosis and Typhoid
 B. Tuberculosis and Measels
C. Tuberculosis and Cholera
 D. All of Above
- Q.80 A metal cofactor which is used in synthesis of glycolysis is?**
 A. Fe^{+3}
 B. Mn^{+2}
 C. Co^{+2}
D. Mg^{+2}
- Q.81 What is an example of an oviparous mammal?**
 A. Penguin
B. Shark
 C. Spiny anteater
 D. Elephant
- Q.82 Which of the following would not be observed in a bacterial cell?**
 A. DNA
 B. Cell membrane
 C. Golgi apparatus
 D. Ribosomes
- Q.83 The total kinetic energy of water molecules is known as:**
A. Water potential
 B. Osmotic potential
 C. Pressure potential
 D. None of these
- Q.84 Feedback inhibition in most metabolic pathways involves which type of enzymes?**
 A. Holoenzymes
 B. Coenzymes
 C. Apoenzymes
D. Allosteric enzymes
- Q.85 Fluid is secreted by how many three sets of glands which combine with the sperm to form:**
 A. Interstitial fluid
 B. Semen
 C. Amniotic fluid
 D. Both A and B
- Q.86 Which of the following does NOT occur during skeletal muscle contraction?**
 A. ATP is hydrolyzed
 B. Calcium binds to myosin heads
 C. Both A and B
 D. None of these
- Q.87 Which of the following is an example of a tetrapod?**
 A. Flesh fly
 B. Blue-ringed octopus
 C. Tarantula
D. Hummingbird
- Q.88 Which of the following statements explains why viruses are only able to multiply in living cells?**
 A. Their binary fission is controlled by host cell genes
B. Virus do not possess the necessary components for self-replication
 C. DNA is only able to replicate inside living cells
 D. They have only enough genetic information for DNA replication
- Q.89 If two species have similar proteins and genes it means**
 A. They have same organs
 B. They have common ancestors
 C. They have similar appearance
 D. All of above
- Q.90 How many compounds of tar of tobacco smoke are included in causing cancer?**
 A. 2
 B. 5
 C. 8
D. More than 10
- Q.91 Cooperation of the two photosystems of the chloroplast is required for ____**
 A. ATP synthesis
B. Reduction of NADP
 C. Cyclic photophosphorylation
 D. Oxidation of the reaction center of photosystem I
- Q.92 Which of the following is a mesh of interconnected membranes involved in protein synthesis and transport?**
A. ER
 B. Cytoskeleton

- C. Golgi apparatus
D. All of thees
- Q.93 Which of the following is inherited via an autosomal recessive allele?**
A. Hemophilia
B. Color-blindness
C. Huntington's disease
D. Cystic fibrosis
- Q.94 The total aggregate of genes in a population at any one time is called population's?**
A. Genome
B. Gene pool
C. Genetic group
D. Genomic library
- Q.95 The spinal cord is divided into how many different regions?**
A. 2
B. 4
C. 6
D. 8
- Q.96 Cyanobacteria have which of the following type of cell wall?**
A. Gram positive
B. Gram negative
C. Cellulose
D. Acid fast
- Q.97 In mammals that are seasonal breeders, females are receptive only once a year. This is known as**
A. Follicular cycle
B. Estrous cycle
C. Luteal cycle
D. Menstrual cycle
- Q.98 What type of the phage is a T2 Phage?**
A. ssDNA Phage
B. ss RNA Phage
C. dsDNA phage
D. ds RNA Phage
- Q.99 The centers for thermoregulation and osmoregulation are present in:**
A. Thalamus
B. Amygdala
C. Hypothalamus
D. Cerebellum
- Q.100 Which of the following step occurs immediately after binding of Ca^{2+} with troponin molecule during muscle contraction?**
A. Binding sites of actin get attached to the myosin head
B. Troponin uncovers the actin binding sites.
C. Ca^{2+} goes back inside sarcoplasmic reticulum.
D. Tropomyosin gets removed from the binding sites of actin filaments.
- Q.101 How are photosynthetic pigments organized?**
A. Clusters
B. Photosystems
C. Stacks
D. Both a and b
- Q.102 The process through which animals take oxygen (O_2) from the air and release carbon dioxide (CO_2) into the air is called**
A. Breathing
B. Respiration
C. Diffusion
D. Osmosis
- Q.103 The genetically Engineered vaccine is not available for which of the following?**
A. HAV
B. HBV
C. HCV
D. HDV
- Q.104 The bacteriophage incorporates in the viral genome in which phase?**
A. Lysogenic cycle
B. Lytic cycle
C. Both
D. None
- Q.105 The most important function of the cytoplasm is to acts as a?**
A. Activity site
C. Wastes
B. Storehouse
D. None of these
- Q.106 In human female, the release of ovum from the follicle is called:**
A. Ovulation
C. Menstruation
B. Fertilization
D. Implantation
- Q.107 Conversion of ssRNA (-) to ssRNA (+) mediated by**
A. DNA dependent DNA polymerase
B. DNA dependent RNA polymerase
C. RNA dependent DNA polymerase
D. RNA dependent RNA polymerase
- Q.108 The flap like structure found in larynx is called:**
A. Glottis
B. Epiglottis
C. Larynx
D. Vocal cords
- Q.109 Which of the following statements explains why viruses are only able to multiply in living cells?**

- A. Binary fission is controlled by host cell genes.
B. Virus do not possess the necessary components for self-replication.
 C. DNA is only able to replicate inside living cells
 D. They have only enough genetic information for DNA replication
- Q.110 Pidgeon, platypus and panda are all representatives of which of the following?**
 A. Homeothermic
 B. Hyperthermic
C. Poikilothermic
 D. None of these
- Q.111 A researcher has designed a new type of inhibitor that binds at the active site of an enzyme. What type of inhibition does this molecule display?**
 A. Uncompetitive inhibition
 B. Noncompetitive inhibition
C. Competitive inhibition
 D. All of these
- Q.112 A sample of RNA is sequenced and found to contain 22% adenine. Which of the following conclusions can also be drawn about the sample?**
A. 22% uracil
 B. 22% cytosine
 C. 22% thymine
 D. 22% guanine
- Q.113 Which molecule passes the mitochondrial membrane to begin the krebs cycle?**
 A. ATP
 B. ADP
C. NADH
D. Acetyl coA
- Q.114 An example of convergent evolution is best represented by which of the following?**
 A. Teeth of domestic dog, teeth of a wolf
 B. Wings of *Geospiza magnirostris*, wings of *Geospiza fortis*
C. Wing of Hawkmoths, the wing of hawks
 D. All of these
- Q.115 The two domains to which prokaryotes are classified into are which of the following?**
 A. Bacteria and Protista
 B. Archaea and Eukarya
C. Eukarya and Monera
D. EuBacteria and Archaea
- Q.116 Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment**
 A. Carotenoids, Chlorophyll a, Chlorophyll b.
 B. Chlorophyll b, Carotenoids, Chlorophyll a.
C. Carotenoids, Chlorophyll b, Chlorophyll a.
 D. Chlorophyll a, Chlorophyll b, Carotenoids.
- Q.117 All of the following statements are correct EXCEPT:**
 A. The testicles produce millions of sperm.
 B. Hormones are produced by the testicles.
 C. Semen is produced in the seminal vesicles
D. All males are born with one testicle
- Q.118 If the non-protein part of Enzyme is covalently bonded to the enzyme it is known as?**
 A. Coenzyme
 B. Cofactor
C. Prosthetic group
 D. Activator
- Q.119 Casparian strips are found in:**
 A. Epidermis
B. Endodermis
 C. . Cortex
 D. Vascular bundle
- Q.120 Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?**
 A. Meiosis
 B. Fertilization
C. Ovulation
D. Oogenesis
- Q.121 Cnidaria is characterized by which of the following?**
 A. Tissue level of organization
 B. Nematoblasts
C. Coelenteron
D. All of these
- Q.122 _____ is responsible for making ribosomal RNA (rRNA).**
 A. Nucleus only
B. Nucleolus only
 C. Nucleus & nucleolus only
 D. None of the above
- Q.123 Which the following is not the unique features of synovial joint?**
 A. Articular capsule
 B. Articular cartilage

- C. Synovial fluid
D. Fibrocartilage
- Q.124 How is the body plan of a lobster similar to that of a whale?**
 A. Closed circulatory system.
 B. Mouth develops from the blastopore.
C. A tubular digestive system with a mouth and an anus.
 D. The gut is not lined by coelomic epithelium.

CHEMISTRY

- Q.125 Reagent like $K_2Cr_2O_7$ and H_2SO_4 lead to _____?**
 A. Reduction
 B. Hydrolysis
 C. Dehydration
D. Oxidation
- Q.126 Definite Shape of NaCl crystal is its**
 A. Characteristic
 B. Symmetry
C. Habit
 D. All of these
- Q.127 In Balancing Redox equation the first thing is to**
 A. Balance out all the Reactants
 B. Write the skeleton Equation
 C. Calculate the oxidation Number
 D. Identify the elements
- Q.128 The separation of components of liquid on the basis of their boiling points is called as?**
 A. Destructive distillation
B. Fractional distillation
 C. Vacuum distillation
 D. Partial distillation
- Q.129 Pure metal**
 A. Corrode slowly
B. Does not corrode easily
 C. Corrode rapidly
 D. None of these
- Q.130 Manufacturing of Ammonia by Haber's process is an**
 A. Endothermic reaction
B. Exothermic reaction
 C. Irreversible
 D. Slow
- Q.131 Ethanol is prepared on a large scale by**
 A. Hydration of alkanes
 B. Distillation of wood
C. Fermentation
 D. Williamson's synthesis
- Q.132 The temperature at which vapor pressure of a liquid becomes equal to external pressure or atmospheric pressure is called as ?**
 A. Melting point
B. Boiling point
 C. Freezing point
 D. Sublimation point
- Q.133 ΔH for exothermic reaction is _____?**
 A. More than 1
C. Negative
 B. Positive
 D. Neutral
- Q.134 Which of the following group is ortho-para directing group _____?**
 A. $-COOH$
 B. $-COR$
 C. $-CN$
D. $-OH$
- Q.135 Each electron in an atom must have its own unique set of quantum number is a statement of _____**
 A. Aufbau principle
B. Pauli exclusion principle
 C. Hund's rule
 D. None of these
- Q.136 The unit of electron affinity is**
 A. J/mol
B. KJ/mol
 C. KJ/atom
 D. J/atom
- Q.137 Electron affinity of an atom is the energy released when an electron _____ to an empty or partially filled orbital of an atom to form _____**
 A. Removed, cation
B. Added, Cation
 C. Added, anion
 D. Removed, anion
- Q.138 Conversion of water into steam is a**
A. Spontaneous Reactions
 B. Exothermic Reaction
 C. Reversible Reaction
 D. Combustion Reaction
- Q.139 On which factors the vapour pressure of a substance does not depend?**
 A. Physical state of matter
 B. Intermolecular forces
C. Surface area
 D. Temperature
- Q.140 Hydrogenation of alkenes takes place in the presence of _____?**
 A. Nickel
 B. Gold
 C. Palladium
D. Raney Nickel

- Q.141 Acetic acid is also named as _____?
 A. Propanoic acid
 B. Butanoic acid
 C. Ethanoic acid
 D. Methanoic acid
- Q.142 Effusion is the movement of a gas through extremely small opening of molecular size into region of _____ pressure
 A. High
 B. Low
 C. Moderate
 D. Same
- Q.143 How many times a covalent bond is stronger than H-Bond?
 A. 10
 B. 12
 C. 20
 D. 2
- Q.144 K_c and K_p have the same value when reactants and products have same number of
 A. Atoms
 B. Molecules
 C. Ions
 D. Moles
- Q.145 Production of Ammonia by Haber process is made economical by using
 A. Law of Mass Action
 B. Catalyst
 C. Le Chatelier's Principle
 D. All of these
- Q.146 Metals are _____?
 A. Reducing agents
 B. Oxidizing agents
 C. Both a and b
 D. Dehydrating agents
- Q.147 Which one of them is known as super cooled liquids?
 A. Glass
 B. Diamond
 C. Silica
 D. Carbon
- Q.148 What is the color of iodoform precipitates?
 A. White
 B. Black
 C. Reddish
 D. Yellow
- Q.149 Which of the following does not react with bases?
 A. Carboxylic acids
 B. Phenol
 C. Ethanol
 D. HCl
- Q.150 The probability of finding an electron between s-orbital is zero. This place is called _____ plane
 A. Nodal
 B. Antinodal
 C. Non nodal
 D. Erect
- Q.151 Chemical equations do not tell about the _____ because of certain limitations.
 A. Rate of reaction
 B. Pressure
 C. Conditions
 D. Both A & C
- Q.152 Plasma is difficult to maintain at
 A. Low temperature
 B. High temperature
 C. Low pressure
 D. High pressure
- Q.153 $\text{Rate} = k [\text{NO}_2]$, the order of this reaction is
 A. Zero
 B. Two
 C. Three
 D. One
- Q.154 Electrolysis of a dilute solution of NaCl results at the anode
 A. Sodium
 B. Hydrogen
 C. Chlorine
 D. Oxygen
- Q.155 Which of the following is directional bond?
 A. Ionic bond
 B. Metallic bond
 C. H-bond
 D. None of these
- Q.156 The reaction in which benzene is reacted with alkyl or acyl halide in the presence of AlCl_3 is called as _____?
 A. Aldol condensation
 B. Wolf kishner reaction
 C. Wittig reaction
 D. Friedel and craft reaction
- Q.157 An atom or group of atom that gives specific properties to the Compound is called as _____?
 A. Functional groups
 B. Homologous series
 C. Alkane
 D. Atoms
- Q.158 Which of the following causes complete reduction of carboxylic acid into alkanes?

- A. H_2/Ni
B. Pd/C
- Q.159 which one is an index to metallic character?
A. Ionization energy
B. Electron affinity
- Q.160 $CuSO_4 \cdot 5H_2O$ is an example of crystal system
A. Triclinic
B. Tetragonal
- Q.161 OH^- is added when reaction is in
A. Acidic Medium
B. Basic Medium
- Q.162 Which one of the following is an example of transition element?
A. Na
B. Co
- Q.163 Symmetry is repetition of ____ when a crystal rotates at 36° along its axis
A. Faces
B. Edges
- Q.164 Which one of the following is not an example of state function?
A. Temperature (T)
B. Volume (V)
- Q.165 Large hydrocarbons are converted into smaller hydrocarbons by a process called as?
A. Reforming
B. Distillation
- Q.166 If a graph is plotted with concentration data of a reactant in a chemical reaction the curve is
A. Rising
B. Falling
- Q.167 What is the value of One calorie in joule?
A. 4.98J
B. 7.98J
C. 4.18J
- Q.168 Octane number of 2,2,4-trimethylpentane is
A. 100
B. 95
- Q.169 During reduction of aldehydes with $NaBH_4$, which of the following intermediate is formed?
A. Carbanion
B. Carbocation
- Q.170 Carboxylase are example of which type of enzyme:
A. Hydrolases
B. Lyases
- Q.171 Gypsum is applied to the soil as a source of
A. Ca and P
B. S and P
- Q.172 The ____ study of composition of pure substance in 17th century clearly shows that few elements are components of many substances
A. Qualitative
B. Quantitative
- Q.173 Which of the following catalyst is used in the industrial preparation of methanol?
A. Zinc oxide and alumina
C. Silica and Chromium oxide
- Q.174 The ionic radius of an ion is the radius of the ion while considering it to be ____ in shape
A. Oval
B. Round
- Q.175 Half-life period for a first order reaction is independent of
A. Conditions of temperature
B. Initial Concentration of the compound
- C. H/P
D. $LiAlH_4$
- C. Atomic radius
D. Electronegativity
- C. Cubic
D. Rhombohedral
- C. Neutral solution
D. All of these
- C. Ba
D. Ra
- C. Angles
D. All of these
- C. Enthalpy (E)
D. Heat (q)
- C. Cracking
D. Decomposition
- C. U shaped
D. None of these
- D. 8.21J
- C. 9
D. 89
- C. Carbene
D. Alkoxide ion
- C. Transferases
D. Ligases
- C. Ca and S
D. We could not apply
- C. Both A & B
D. Extensive
- B. Alumina and silica
D. Zinc oxide and Chromium oxide
- C. Rectangular
D. Spherical

- C. Presence of Catalyst
D. All of these
- Q.176 The total number of transition elements are?
A. 48
B. 32
C. 58
D. 28
- Q.177 The lobes of d-orbitals lie between the axis
A. First two
B. First three
C. In all axis
D. None of these
- Q.178 Formation of ZnSO_4 from blue copper sulphate solution is a spontaneous
A. Oxidation reaction
B. Addition Reaction
C. Reduction Reaction
D. Redox reaction
- Q.179 Electrolysis is a
A. Spontaneous Reactions
B. Oxidation-reduction reaction
C. Reduction Reaction
D. Oxidation Reaction
- Q.180 Which of the following shows H-bonding?
A. $\text{CH}_3\text{CH}_2\text{OH}$
B. $\text{CH}_3\text{-O-CH}_3$
C. $\text{CH}_3\text{CH}_2\text{Cl}$
D. All of these

ENGLISH

- Q.181 My father _____ in 1956.
A. died
B. dies
C. had die
D. has died
- Q.182 I bought _____ new TV set yesterday.
A. a
B. an
C. the
D. no article
- Q.183 You must had (A)/ a kind and gentle heart (B) if you want (C) / to become a successful doctor (D)
A. You must had
B. a kind and gentle heart
C. if you want
D. to become a successful doctor.
- Q.184 Don't forget your _____. It's very cold outside, you wouldn't want to catch a cold.
A. gloves
B. underwear
C. umbrella
D. scissors
- Q.185 No, my family _____ live nearby.
A. does not
B. do
C. do not
D. did
- Q.186 Rainfall in the desert is not only extremely low, but also extremely _____.
A. intense
B. erratic
C. meagre
D. undesirable
- Q.187 Last Saturday my father _____ (take) my friends and me to the circus.
A. take
B. took
C. will take
D. has taken
- Q.188 Choose the correct spelling of the word
A. irresistable
B. irresistibile
C. irresistible
D. irresistibel
- Q.189 By the next month, we shall _____ (have) the project.
A. have
B. have had
C. has
D. having
- Q.190 Apart from cows, buffaloes are also _____ for milk production.
A. reared
B. grown
C. developed
D. produced
- Q.191 Choose the correct spelling of the word
A. probaly
B. probably
C. probably
D. probly
- Q.192 There _____ many objections to the plan.
A. is
B. are
C. was
D. be
- Q.193 What are you doing here?

- A. Declarative
B. Imperative
C. Interrogative
D. Exclamatory
- Q.194 The peon will not _____ the bell yet.
A. has rings
B. had rung
C. have rung
D. ring
- Q.195 Choose the correct spelling of the word
A. adress
B. address
C. addres
D. address
- Q.196 What do you usually have for _____ breakfast?
A. a
B. an
C. the
D. no article
- Q.197 Choose the correct sentence.
A. Drinks on the menu included the following, hot chocolate, iced tea and lemonade.
B. Drinks on the menu included the following hot chocolate, iced tea, and lemonade.
C. Drinks on the menu included the following: hot chocolate, iced tea and lemonade.
D. Drinks on the menu included the following. Hot chocolate, iced tea and lemonade
- Q.198 This summer our vacation should be both exciting and restful.
A. complex
B. simple
C. compound
D. compound-complex
- Q.199 As he hated every minute of his life in the army, it is no wonder that he decided one day to his unit.
A. desert
B. dessert
C. avoid
D. suspend
- Q.200 Sara _____ (unlock) the door and _____ (go) into her apartment.
A. unlocking... going
B. unlocked... went
C. unlocked... gone
D. unlocks... is going

LOGICAL REASONING

- Q.201 What is the common vowel in Apple and Banana?
A. E
B. P
C. A
D. M
- Q.202 Statement: The life today is too fast, demanding and full of variety in all aspects which at times leads to stressful situations. Number of suicide cases among teenagers is on increase.
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
- Q.203 Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?
A. 12
B. 14
C. 27
D. 53
- Q.204 In the following letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternatives
A. cbcb
B. bbcb
C. cbbc
D. bcbc
- Q.205 Following is the Largest organ in human body
A. Skin
B. Liver
C. Large intestine
D. Both A and B
- Q.206 The set of all real numbers under the usual multiplication operation is not a group since
A. Zero has no inverse
B. Identity element does not exist
C. Multiplication is not associative
D. Both A and B

- Q.207 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 follows
B. None of them follows
C. Only I follow
D. Only II follows
- Q.208 Measure is to calliper as direction is to
- A. Speed
B. Hiking
C. Needle
D. compass
- Q.209 Complete the series A2, B4, C8, D16, E?
- A. 32
B. 34
C. 36
D. 38
- Q.210 Language with the most alphabets is _____
- A. French
B. Chinese
C. Portuguese
D. Urdu

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
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PMC PRACTICE TEST 08

PHYSICS

- Q.1 Volts / Ampere = _____
A. Ohm
B. Ohm meter
C. Pascal
D. None of them
- Q.2 Decrease in velocity per unit time is called
A. Acceleration
B. Positive acceleration
C. Deceleration
D. Uniform acceleration
- Q.3 For ideal step up transformer P_s ____ P_p .
A. Equal to
B. Greater than
C. Less than
D. None of these
- Q.4 Charge of photon is
A. 0
B. Positive
C. Negative
D. Positive/negative
- Q.5 As the wavelength of light used increases, the distance between bright fringes in the interference pattern:....
A. Increases
B. Decreases
C. Remains same
D. None of these
- Q.6 The _____ reaction is an example of renewable source of energy
A. Fission
B. Fusion
C. Both a and b
D. None of these
- Q.7 Which light has more velocity
A. He-Ne laser
B. White
C. Yellow
D. All are equal
- Q.8 To measure an A.C. voltage by using an A.C. potentiometer, it is desirable that the supply for the potentiometer is taken
A. From a source which is not the same as the unknown voltage
B. From a battery
C. From the same source as the unknown voltage
D. Any of the above
- Q.9 The unit of electric field strength is:....
A. V / C
B. N / C
C. N / V
D. N m
- Q.10 Under which conditions, a real gas approximate to an ideal gas?
A. Pressure = high density = high
B. Pressure = low density = high
C. Pressure = high density = low
D. Pressure = low density = low
- Q.11 Half life of a radiation active element is that period in which half of the atoms
A. Diffuse
B. Decompose
C. Disturbed
D. Decay
- Q.12 A constant force $F = 2i + 3j + 4k$ is applied on a body what will be the work done to move a body 5 m in z- direction
A. 0
B. 10 J
C. 45 J
D. 20 J
- Q.13 Instantaneous velocity is defined at
A. Particular displacement
B. Instant acceleration
C. Instant time
D. Average time

- Q.14** 7 Radian is equal to ____ degree approximately
 A. 300 C. 500
 B. 400 D. None of these
- Q.15** An object undergoes simple harmonic motion. Its amplitude is x_0 . The speed of the object is v when its displacement is $x_0/3$. What is the speed when its displacement is x_0 ?
 A. $v/3$ C. $3/2 v$
 B. $2 v$ D. 0
- Q.16** Which of the following is not a unit of angular displacement :
 A. Degree C. Meters
 B. Revolution D. Radian
- Q.17** The K.E. of a body of mass 2kg and momentum of 2Ns is :
 A. 1J C. 3J
 B. 2J D. 4J
- Q.18** The spectrum of perfect black body is
 A. Line C. Band
 B. Continuous D. All of these
- Q.19** Which of this is constant in adiabatic process
 A. Total heat C. Entropy
 B. Work done D. Both a) and c)
- Q.20** Which source is associated with a line emission spectra
 A. Electric fibre C. Red traffic light
 B. Neon Street sign D. Sun
- Q.21** How can a magnetic field be produced?
 A. Using a permanent magnet
 B. Electric current
 C. Using a temporary magnet
 D. Using a permanent magnet or electric current
- Q.22** If the peak voltage is 9V, calculate the peak to peak voltage.
 A. 9V C. 4.5V
 B. 18V D. 0V
- Q.23** You have three capacitors, each of $2 \mu\text{C}$. In which of the following combinations of the three capacitors, the resultant capacitance is $3\mu\text{C}$?
 A. All three capacitors in series
 B. Two capacitors are in series, one in parallel
 C. Two capacitors are in parallel, one in series
 D. All three capacitors in parallel
- Q.24** Half wave rectifier passes only
 A. Lower half cycle C. Both cycles
 B. Upper half cycle D. None of them
- Q.25** The sum of absorption and transmission of light in a medium is equal to
 A. Incident light C. Any of a or b
 B. Reflected light D. None of these
- Q.26** Polarization explains light is
 A. Electric in nature C. Both a & B
 B. Magnetic in nature D. None of these
- Q.27** x-rays used to measure
 A. Fractures C. Blood pressure
 B. Temperature D. All of these

- Q.28** A common material for cushioning objects in packages is made by trapping bubbles of air between sheets of plastic. Is this material more effective at keeping the contents of the package from moving around inside the package on
- A. A hot day
 - B. A cold day
 - C. Either hot or cold days
 - D. There is not enough information to say
- Q.29** A car accelerates from 0 to 72 km/h in 5 seconds. If it has wheels of diameter 50 cm, the angular acceleration of its wheels is
- A. 1.6 rad/s^2
 - B. 8 rad/s^2
 - C. 16 rad/s^2
 - D. 160 rad/s^2
- Q.30** Light of wavelength 450 nm is incident on a diffraction grating on which 5000 lines/cm have been ruled. Determine the angle corresponding to third order.
- A. 13
 - B. 26
 - C. 42.5
 - D. 39.5
- Q.31** A vibrating string have a little sound. However, when attached with a board then sound have a greater intensity. It is because:...
- A. The string vibrates with more energy
 - B. The sound is concentrated over smaller area
 - C. The speed of sound is greater in board
 - D. The energy leaves the board at a greater rate
- Q.32** Two pulses move in opposite directions on a string and are identical in shape except that one has positive displacements of the elements of the string and the other has negative displacements. At the moment the two pulses completely overlap on the string, what happens?
- A. The energy associated with the pulses has disappeared
 - B. The string does not move afterwards
 - C. The string forms a straight line for a moment
 - D. Pulses vanished and will not appear again
- Q.33** For a linear relationship between displacement and time we get d-t graph as
- A. Straight line passing through origin
 - B. Straight line parallel to t- axis
 - C. Quadratic relationship
 - D. Cubic relationship
- Q.34** Which one of the following bulbs has the least resistance?
- A. 100W
 - B. 200W
 - C. 300W
 - D. 60W
- Q.35** Terminal potential difference of a cell
- A. Increases with increase in its internal resistance
 - B. Decrease with increase in internal resistance
 - C. Is independent of its internal resistance
 - D. None of these
- Q.36** In a conductor, if 6-coulomb charge flows for 2 seconds. The value of electric current will be
- A. 3 ampere
 - B. 3 volts
 - C. 2 amperes
 - D. 2 volts
- Q.37** Farad is defined as:
- A. Newton / volt
 - B. Coulomb / volt
 - C. Coulomb / joule
 - D. Coulomb / newton

- ate the AC power input
- C. 145.76 m
D. 456.78 M
- onic stationary sound wave is produced in the
filled with water. More water is added to the
stationary wave is produced with a different fre
frequency and the nature of displacement in
displacement = antinode change in frequency =
displacement = antinode change in frequency =
displacement = node change in frequency = incr
displacement = node change in frequency = dec
n which is equivalent to hydrogen atom has
hydrogen lines is
- C. Ne^{+9}
D. Na^{10+}
- stored in a parallel plate capacitor is 24 J. W
between the plates if the capacitance of the cap
C. 54 kV

- Q.49** Is it possible to visualize magnetic flux lines
 A. Yes directly we can see with eyes
 B. We need microscope
 C. We need telescope
 D. All cases are not possible
- Q.50** What will be the de – Broglie wavelength when the kinetic energy of the electron increases by 5 times?
 A. $\sqrt{5}$ C. $1/\sqrt{5}$
 B. 5 D. $1/5$
- Q.51** A monochromatic light is incident on two slits and interference pattern is produced on screen at the distance L. Now one slit is covered, no light coming from it. What is the change in pattern on the screen?
 A. The width of central maximum is decreased
 B. The width of outer maximum is decreased
 C. The intensity of central maximum will increase
 D. Less number of fringes will be observed
- Q.52** When a stone is thrown horizontally with 2 m/s from a building of height 5 m then just before hitting ground its acceleration is
 A. 12 m/s^2 C. 9.8 m/s^2
 B. 13 m/s^2 D. 7.6 m/s^2
- Q.53** The ratio of angular speed of the minute hand of clock to that of its hour hand is :
 A. 3600:1 C. 24:1
 B. 60:1 D. 12:1
- Q.54** Sample of radioactive element with initial mass of 24 gm decayed to 3 gm in 36 minutes. How much of original sample remained after the first 12 minutes?
 A. 12 g C. 2 g
 B. 6 g D. 8 g
- Q.55** A particle of mass 10 kg is moving with velocity $10(x)^{1/2}$, here x is displacement. The work done by net force during the displacement of particle from $x=4$ to $x=9$
 A. 1250 J C. 3500J
 B. 1000J D. 2500 J
- Q.56** A 200 watt bulb operates in a 220V circuit. Find the current.
 A. 0.9 Amp C. 2 Amp
 B. 0.6 Amp D. 3 Amp

BIOLOGY

- Q.57** In parthenocarpy which levels are high in ovaries?
 A. Gibberellins C. Auxins
 B. Cytokinins D. All of these
- Q.58** What is the resolution power of a compound microscope?
 A. 2 micrometer C. 24 micrometer
 B. 2-4A D. 24A
- Q.59** A chemical component that is NOT found in all viruses is:
 A. Protein C. DNA
 B. Lipids D. RNA
- Q.60** Which of the following is not a component of HIV?
 A. RNA C. Ribosomes
 B. Protein D. Reverse transcriptase

- Q.61 Chlorophylls are found embedded in the _____ membranes?**
 A. Stroma C. Thylakoid
 B. Grana D. Intergrana
- Q.62 Which of the following is not found in series protostomia?**
 A. Annelida C. Mollusca
 B. Arthropoda D. Echinodermata
- Q.63 All of the following about reflex action are true EXCEPT:**
 A. It is voluntary C. It is found in higher animals
 B. It is involuntary D. All of these
- Q.64 Mating with non-relatives is known as?**
 A. Inbreeding C. Breeding
 B. Outbreeding D. None of these
- Q.65 Vascular Cambium initially appears as actively dividing cells between?**
 A. Primary Xylem and secondary xylem
 B. Primary xylem and secondary phloem
 C. Secondary xylem and secondary phloem
 D. Primary xylem and primary phloem
- Q.66 In competitive inhibition, the two things that binds to enzyme active site are?**
 A. Substrate C. Catalyst
 B. Inhibitors D. Both A and B
- Q.67 ABO blood group system was discovered in:**
 A. 1811 C. 1911
 B. 1801 D. 1901
- Q.68 Which of the following is a chemical link between catabolism and anabolism?**
 A. AMP C. ADP
 B. ATP D. All of these
- Q.69 The first bacteria ever to be isolated is?**
 A. Coccus C. Spirochete
 B. Vibrio D. Bacillus
- Q.70 The shape of gray matter is:**
 A. Spherical C. Mosquito
 B. Butterfly D. Rectangular
- Q.71 The number of spermatids produced from primary spermatocytes is?**
 A. 1 C. 3
 B. 2 D. 4
- Q.72 Lymph nodes may be located in the human body in the tissues of the:**
 A. Stomach C. Brain
 B. Thyroid gland D. Groin and neck
- Q.73 Which structure of protein gives information about the folding of a protein?**
 A. Primary structure C. Tertiary structure
 B. Secondary structure D. Quaternary structure
- Q.74 Changes in sarcomere length are due to the filaments pulled along the thick filaments in the direction of the:**
 A. H zone C. Z line
 B. M line D. I band
- Q.75 A certain type of plant is only tall when it has a heterozygous genotype. If two heterozygous plants are crossed, what is the probability their offspring will also be tall?**
 A. 25% C. 75%
 B. 50% D. 1

- Q.76 Chlorophylls mainly absorb light of which wavelength?**
 A. Orange blue
 B. Yellow orange
 C. Violet red
 D. Orange red
- Q.77 In the air passageway, the incoming air passes from the pharynx to**
 A. Bronchi
 B. Bronchioles
 C. Windpipe
 D. Larynx
- Q.78 Biorhythms are called circadian which means about one day so they are also called?**
 A. Diurnal tempo
 B. Diurnal time
 C. Diurnal rhythms
 D. All of these
- Q.79 Robert Koch discovered bacteria that cause**
 A. Tuberculosis and Typhoid
 B. Tuberculosis and Measels
 C. Tuberculosis and Cholera
 D. All of Above
- Q.80 A metal cofactor which is used in synthesis of glycolysis is?**
 A. Fe^{+3}
 B. Mn^{+2}
 C. Co^{+2}
 D. Mg^{+2}
- Q.81 What is an example of an oviparous mammal?**
 A. Penguin
 B. Shark
 C. Spiny anteater
 D. Elephant
- Q.82 Which of the following would not be observed in a bacterial cell?**
 A. DNA
 B. Cell membrane
 C. Golgi apparatus
 D. Ribosomes
- Q.83 The total kinetic energy of water molecules is known as:**
 A. Water potential
 B. Osmotic potential
 C. Pressure potential
 D. None of these
- Q.84 Feedback inhibition in most metabolic pathways involves which type of enzymes?**
 A. Holoenzymes
 B. Coenzymes
 C. Apoenzymes
 D. Allosteric enzymes
- Q.85 Fluid is secreted by how many three sets of glands which combine with the sperm to form:**
 A. Interstitial fluid
 B. Semen
 C. Amniotic fluid
 D. Both A and B
- Q.86 Which of the following does NOT occur during skeletal muscle contraction:**
 A. ATP is hydrolyzed
 B. Calcium binds to myosin heads
 C. Both A and B
 D. None of these
- Q.87 Which of the following is an example of a tetrapod?**
 A. Flesh fly
 B. Blue-ringed octopus
 C. Tarantula
 D. Hummingbird
- Q.88 Which of the following statements explains why viruses are only able to multiply in living cells?**
 A. Their binary fission is controlled by host cell genes
 B. Virus do not possess the necessary components for self-replication
 C. DNA is only able to replicate inside living cells
 D. They have only enough genetic information for DNA replication
- Q.89 If two species have similar proteins and genes it means**
 A. They have same organs
 B. They have common ancestors
 C. They have similar appearance
 D. All of above

- Q.90** How many compounds of tar of tobacco smoke are included in causing cancer?
A. 2
B. 5
C. 8
D. More than 10
- Q.91** Cooperation of the two photosystems of the chloroplast is required for ____
A. ATP synthesis
B. Reduction of NADP
C. Cyclic photophosphorylation
D. Oxidation of the reaction center of photosystem I
- Q.92** Which of the following is a mesh of interconnected membranes involved in protein synthesis and transport?
A. ER
B. Cytoskeleton
C. Golgi apparatus
D. All of thees
- Q.93** Which of the following is inherited via an autosomal recessive allele?
A. Hemophilia
B. Color-blindness
C. Huntington's disease
D. Cystic fibrosis
- Q.94** The total aggregate of genes in a population at any one time is called population's?
A. Genome
B. Gene pool
C. Genetic group
D. Genomic library
- Q.95** The spinal cord is divided into how many different regions?
A. 2
B. 4
C. 6
D. 8
- Q.96** Cyanobacteria have which of the following type of cell wall?
A. Gram positive
B. Gram negative
C. Cellulose
D. Acid fast
- Q.97** In mammals that are seasonal breeders, females are receptive only once a year. This is known as
A. Follicular cycle
B. Estrous cycle
C. Luteal cycle
D. Menstrual cycle
- Q.98** What type of the phage is a T2 Phage?
A. ssDNA Phage
B. ss RNA Phage
C. dsDNA phage
D. ds RNA Phage
- Q.99** The centers for thermoregulation and osmoregulation are present in:
A. Thalamus
B. Amygdala
C. Hypothalamus
D. Cerebellum
- Q.100** Which of the following step occurs immediately after binding of Ca^{2+} with troponin molecule during muscle contraction?
A. Binding sites of actin get attached to the myosin head
B. Troponin uncovers the actin binding sites.
C. Ca^{2+} goes back inside sarcoplasmic reticulum.
D. Tropomyosin gets removed from the binding sites of actin filaments.
- Q.101** How are photosynthetic pigments organized?
A. Clusters
B. Photosystems
C. Stacks
D. Both a and b
- Q.102** The process through which animals take oxygen (O_2) from the air and release carbon dioxide (CO_2) into the air is called
A. Breathing
B. Respiration
C. Diffusion
D. Osmosis

- Q.103** The genetically Engineered vaccine is not available for which of the following?
- A. HAV
B. HBV
C. HCV
D. HDV
- Q.104** The bacteriophage incorporates in the viral genome in which phase?
- A. Lysogenic cycle
B. Lytic cycle
C. Both
D. None
- Q.105** The most important function of the cytoplasm is to acts as a?
- A. Activity site
B. Storehouse
C. Wastes
D. None of these
- Q.106** The most important function of the cytoplasm is to acts as a?
- A. Activity site
B. Storehouse
C. Wastes
D. None of these
- Q.107** Conversion of ssRNA (-) to ssRNA (+) mediated by
- A. DNA dependent DNA polymerase
B. DNA dependent RNA polymerase
C. RNA dependent DNA polymerase
D. RNA dependent RNA polymerase
- Q.108** The flap like structure found in larynx is called:
- A. Glottis
B. Epiglottis
C. Larynx
D. Vocal cords
- Q.109** Which of the following statements explains why viruses are only able to multiply in living cells?
- A. Binary fission is controlled by host cell genes.
B. Virus do not possess the necessary components for self-replication.
C. DNA is only able to replicate inside living cells
D. They have only enough genetic information for DNA replication
- Q.110** Pidgeon, platypus and panda are all representatives of which of the following?
- A. Homeothermic
B. Hyperthermic
C. Poikilothermic
D. None of these
- Q.111** A researcher has designed a new type of inhibitor that binds at the active site of an enzyme. What type of inhibition does this molecule display?
- A. Uncompetitive inhibition
B. Noncompetitive inhibition
C. Competitive inhibition
D. All of these
- Q.112** A sample of RNA is sequenced and found to contain 22% adenine. Which of the following conclusions can also be drawn about the sample?
- A. 22% uracil
B. 22% cytosine
C. 22% thymine
D. 22% guanine
- Q.113** Which molecule passes the mitochondrial membrane to begin the krebs cycle?
- A. ATP
B. ADP
C. NADH
D. Acetyl coA
- Q.114** An example of convergent evolution is best represented by which of the following?
- A. Teeth of domestic dog, teeth of a wolf
B. Wings of Geospiza magnirostris, wings of Geospiza fortis
C. Wing of Hawkmoths, the wing of hawks
D. All of these

- Q.115** The two domains to which prokaryotes are classified into are which of the following?
- A. Bacteria and Protista
B. Archaea and Eukarya
C. Eukarya and Monera
D. EuBacteria and Archaea
- Q.116** Which is the correct order of energy transfer from accessory pigments to main photosynthetic pigment
- A. Carotenoids, Chlorophyll a, Chlorophyll b.
B. Chlorophyll b, Carotenoids, Chlorophyll a.
C. Carotenoids, Chlorophyll b, Chlorophyll a.
D. Chlorophyll a, Chlorophyll b, Carotenoids.
- Q.117** All of the following statements are correct EXCEPT:
- A. The testicles produce millions of sperm.
B. Hormones are produced by the testicles.
C. Semen is produced in the seminal vesicles
D. All males are born with one testicle
- Q.118** If the non-protein part of Enzyme is covalently bonded to the enzyme it is known as?
- A. Coenzyme
B. Cofactor
C. Prosthetic group
D. Activator
- Q.119** Casparian strips are found in:
- A. Epidermis
B. Endodermis
C. . Cortex
D. Vascular bundle
- Q.120** Which term refers to the formation of egg cells that begins in the developing ovaries of a female fetus?
- A. Meiosis
B. Fertilization
C. Ovulation
D. Oogenesis
- Q.121** Cnidaria is characterized by which of the following?
- A. Tissue level of organization
B. Nematoblasts
C. Coelenteron
D. All of these
- Q.122** _____ is responsible for making ribosomal RNA (rRNA).
- A. Nucleus only
B. Nucleolus only
C. Nucleus & nucleolus only
D. None of the above
- Q.123** Which the following is not the unique features of synovial joint?
- A. Articular capsule
B. Articular cartilage
C. Synovial fluid
D. Fibrocartilage
- Q.124** How is the body plan of a lobster similar to that of a whale?
- A. Closed circulatory system.
B. Mouth develops from the blastopore.
C. A tubular digestive system with a mouth and an anus.
D. The gut is not lined by coelomic epithelium.

CHEMISTRY

- Q.125** Reagent like $K_2Cr_2O_7$ and H_2SO_4 lead to _____?
- A. Reduction
B. Hydrolysis
C. Dehydration
D. Oxidation
- Q.126** Definite Shape of NaCl crystal is its
- A. Characteristic
B. Symmetry
C. Habit
D. All of these
- Q.127** In Balancing Redox equation the first thing is to
- A. Balance out all the Reactants
B. Write the skeleton Equation
C. Calculate the oxidation Number
D. Identify the elements

- Q.128** The separation of components of liquid on the basis of their boiling points is called as?
A. Destructive distillation
B. Fractional distillation
C. Vacuum distillation
D. Partial distillation
- Q.129** Pure metal
A. Corrode slowly
B. Does not corrode easily
C. Corrode rapidly
D. None of these
- Q.130** Manufacturing of Ammonia by Haber's process is an
A. Endothermic reaction
B. Exothermic reaction
C. Irreversible
D. Slow
- Q.131** Ethanol is prepared on a large scale by
A. Hydration of alkanes
B. Distillation of wood
C. Fermentation
D. Williamson's synthesis
- Q.132** The temperature at which vapor pressure of a liquid becomes equal to external pressure or atmospheric pressure is called as ?
A. Melting point
B. Boiling point
C. Freezing point
D. Sublimation point
- Q.133** ΔH for exothermic reaction is _____?
A. More than 1
B. Positive
C. Negative
D. Neutral
- Q.134** Which of the following group is ortho-para directing group _____?
A. $-\text{COOH}$
B. $-\text{COR}$
C. $-\text{CN}$
D. $-\text{OH}$
- Q.135** Each electron in an atom must have its own unique set of quantum number is a statement of _____
A. Aufbau principle
B. Pauli exclusion principle
C. Hund's rule
D. None of these
- Q.136** The unit of electron affinity is
A. J/mol
B. KJ/mol
C. KJ/atom
D. J/atom
- Q.137** Electron affinity of an atom is the energy released when an electron _to an empty or partially filled orbital of an atom to form ____
A. Removed, cation
B. Added, cation
C. Added, anion
D. Removed, anion
- Q.138** Conversion of water into steam is a
A. Spontaneous Reactions
B. Exothermic Reaction
C. Reversible Reaction
D. Combustion Reaction
- Q.139** On which factors the vapour pressure of a substance does not depend?
A. Physical state of matter
B. Intermolecular forces
C. Surface area
D. Temperature
- Q.140** Hydrogenation of alkenes takes place in the presence of ____?
A. Nickel
B. Gold
C. Palladium
D. Raney Nickel
- Q.141** Acetic acid is also named as _____?
A. Propanoic acid
B. Butanoic acid
C. Ethanoic acid
D. Methanoic acid
- Q.142** Effusion is the movement of a gas through extremely small opening of molecular size into region of ____ pressure
A. High
B. Low
C. Moderate
D. Same

- Q.143** How many times a covalent bond is stronger than H-Bond?
A. 10
B. 12
C. 20
D. 2
- Q.144** K_c and K_p have the same value when reactants and products have same number of
A. Atoms
B. Molecules
C. Ions
D. Moles
- Q.145** Production of Ammonia by Haber process is made economical by using
A. Law of Mass Action
B. Catalyst
C. Le chatelier's Principle
D. All of these
- Q.146** Metals are _____?
A. Reducing agents
B. Oxidizing agents
C. Both a and b
D. Dehydrating agents
- Q.147** Which one of them is known as super cooled liquids?
A. Glass
B. Diamond
C. Silica
D. Carbon
- Q.148** What is the color of iodoform precipitates?
A. White
B. Black
C. Reddish
D. Yellow
- Q.149** Which of the following does not react with bases?
A. Carboxylic acids
B. Phenol
C. Ethanol
D. HCl
- Q.150** The probability of finding an electron between s-orbital is zero. This place is called _____ plane
A. Nodal
B. Antinodal
C. Non nodal
D. Erect
- Q.151** Chemical equations do not tell about the _____ because of certain limitations.
A. Rate of reaction
B. Pressure
C. Conditions
D. Both A & C
- Q.152** Plasma is difficult to maintain at
A. Low temperature
B. High temperature
C. Low pressure
D. High pressure
- Q.153** $\text{Rate} = k [\text{NO}_2]^2$, the order of this reaction is
A. Zero
B. Two
C. Three
D. None
- Q.154** Electrolysis of a dilute solution of NaCl results at the anode
A. Sodium
B. Hydrogen
C. Chlorine
D. Oxygen
- Q.155** Which of the following is directional bond?
A. Ionic bond
B. Metallic bond
C. H-bond
D. None of these
- Q.156** The reaction in which benzene is reacted with alkyl or acyl halide in the presence of AlCl_3 is called as _____?
A. Aldol condensation
B. Wolf kishner reaction
C. Wittig reaction
D. Friedel and craft reaction
- Q.157** An atom or group of atom that gives specific properties to the Compound is called as _____?
A. Functional groups
B. Homologous series
C. Alkane
D. Atoms

- Q.158** Which of the following causes complete reduction of carboxylic acid into alkanes?
- A. H_2/Ni C. HI/P
B. Pd/C D. $LiAlH_4$
- Q.159** which one is an index to metallic character
- A. Ionization energy C. Atomic radius
B. Electron affinity D. Electronegativity
- Q.160** $CuSO_4 \cdot 5H_2O$ is an example of crystal system
- A. Triclinic C. Cubic
B. Tetragonal D. Rhombohedral
- Q.161** OH^- is added when reaction is in
- A. Acidic Medium C. Neutral solution
B. Basic Medium D. All of these
- Q.162** Which one of the following is an example of transition element?
- A. Na C. Ba
B. Co D. Ra
- Q.163** Symmetry is repetition of ____ when a crystal rotates at 36° along its axis
- A. Faces C. Angles
B. Edges D. All of these
- Q.164** Which one of the following is not an example of state function?
- A. Temperature (T) C. Enthalpy (E)
B. Volume (V) D. Heat (q)
- Q.165** Large hydrocarbons are converted into smaller hydrocarbons by a process called as?
- A. Reforming C. Cracking
B. Distillation D. Decomposition
- Q.166** If a graph is plotted with concentration data of a reactant in a chemical reaction the curve is
- A. Rising C. U shaped
B. Falling D. None of these
- Q.167** What is the value of One calorie in Joule ?
- A. 4.98J C. 4.18J
B. 7.98J D. 8.21J
- Q.168** Octane number of 2,2,4-trimethylpentane is
- A. 100 C. 9
B. 95 D. 89
- Q.169** During reduction of aldehydes with $NaBH_4$, which of the following intermediate is formed ?
- A. Carbanion C. Carbene
B. Carbocation D. Alkoxide ion
- Q.170** Carboxylase are example of which type of enzyme:
- A. Hydrolases C. Transferases
B. Lyases D. Ligases
- Q.171** Gypsum is applied to the soil as a source of
- A. Ca and P C. Ca and S
B. S and P D. We could not apply
- Q.172** The ____ study of composition of pure substance in 17th century clearly shows that few elements are components of many substances
- A. Qualitative B. Quantitative

- C. Both A & B
D. Extensive
- Q.173 Which of the following catalyst is used in the industrial preparation of methanol?**
A. Zinc oxide and alumina
B. Alumina and silica
C. Silica and Chromium oxide
D. Zinc oxide and Chromium oxide
- Q.174 The ionic radius of an ion is the radius of the ion while considering it to be _____ in shape**
A. Oval
B. Round
C. Rectangular
D. Spherical
- Q.175 Half-life period for a first order reaction is independent of**
A. Conditions of temperature
B. Initial Concentration of the compound
C. Presence of Catalyst
D. All of these
- Q.176 The total number of transition elements are?**
A. 48
B. 32
C. 58
D. 28
- Q.177 The lobes of d-orbitals lie between the axis**
A. First two
B. First three
C. In all axis
D. None of these
- Q.178 Formation of ZnSO_4 from blue copper sulphate solution is a spontaneous**
A. Oxidation reaction
B. Addition Reaction
C. Reduction Reaction
D. Redox reaction
- Q.179 Electrolysis is a**
A. Spontaneous Reactions
B. Oxidation-reduction reaction
C. Reduction Reaction
D. Oxidation Reaction
- Q.180 Which of the following shows H-bonding?**
A. $\text{CH}_3\text{CH}_2\text{OH}$
B. $\text{CH}_3\text{-O-CH}_3$
C. $\text{CH}_3\text{CH}_2\text{Cl}$
D. All of these

ENGLISH

- Q.181 My father _____ in 1956.**
A. died
B. dies
C. had die
D. has died
- Q.182 I bought _____ new TV set yesterday.**
A. a
B. an
C. the
D. no article
- Q.183 You must had (A)/ a kind and gentle heart (B) if you want (C) / to become a successful doctor (D)**
A. You must had
B. a kind and gentle heart
C. if you want
D. to become a successful doctor.
- Q.184 Don't forget your _____. It's very cold outside, you wouldn't want to catch a cold.**
A. gloves
B. underwear
C. umbrella
D. scissors
- Q.185 No, my family _____ live nearby.**
A. does not
B. do
C. do not
D. did

- Q.186** Rainfall in the desert is not only extremely low, but also extremely _____.
- A. intense
B. erratic
C. meagre
D. undesirable
- Q.187** Last Saturday my father _____ (take) my friends and me to the circus.
- A. take
B. took
C. will take
D. has taken
- Q.188** Choose the correct spelling of the word
- A. irresistable
B. irresistibile
C. irresistible
D. irresistibel
- Q.189** By the next month, we shall _____ (have) the project.
- A. have
B. have had
C. has
D. having
- Q.190** Apart from cows, buffaloes are also _____ for milk production.
- A. reared
B. grown
C. developed
D. produced
- Q.191** Choose the correct spelling of the word
- A. probaly
B. probably
C. probably
D. probly
- Q.192** There _____ many objections to the plan.
- A. is
B. are
C. was
D. be
- Q.193** What are you doing here?
- A. Declarative
B. Imperative
C. Interrogative
D. Exclamatory
- Q.194** The peon will not _____ the bell yet.
- A. has rings
B. had rung
C. have rung
D. rings
- Q.195** Choose the correct spelling of the word
- A. adress
B. address
C. addres
D. address
- Q.196** What do you usually have for _____ breakfast?
- A. a
B. an
C. the
D. no article
- Q.197** Choose the correct sentence.
- A. Drinks on the menu included the following, hot chocolate, iced tea and lemonade.
B. Drinks on the menu included the following hot chocolate, iced tea, and lemonade.
C. Drinks on the menu included the following: hot chocolate, iced tea and lemonade.
D. Drinks on the menu included the following. Hot chocolate, iced tea and lemonade
- Q.198** This summer our vacation should be both exciting and restful.
- A. complex
B. simple
C. compound
D. compound-complex
- Q.199** As he hated every minute of his life in the army, it is no wonder that he decided one day to his unit.

- A. desert
- B. dessert

- C. avoid
- D. suspend

- Q.200** Sara _____ (unlock) the door and _____ (go) into her apartment.
- A. unlocking... going
 - B. unlocked... went
 - C. unlocked... gone
 - D. unlocks... is going

LOGICAL REASONING

- Q.201** What is the common vowel in Apple and Banana?
- A. E
 - B. P
 - C. A
 - D. M
- Q.202** Statement: The life today is too fast, demanding and full of variety in all aspects which at times leads to stressful situations. Number of suicide cases among teenagers is on increase.
- 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
- Q.203** Look at this series: 53, 53, 40, 40, 27, 27, ... What number should come next?
- A. 12
 - B. 14
 - C. 27
 - D. 53
- Q.204** In the following letter series, some of the letters are missing, which are given in that order as one of the alternatives below it. Choose the correct alternatives
- A. cbc b
 - B. b b c b
 - C. c b b c
 - D. b c b c
- Q.205** Following is the Largest organ in human body
- A. Skin
 - B. Liver
 - C. Large intestine
 - D. Both A and B
- Q.206** The set of all real numbers under the usual multiplication operation is not a group since
- A zero has no inverse
 - B identity element does not exist
 - C multiplication is not associative
 - D Both A and B
- Q.207** 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 follows
 - B. None of them follows
 - C. Only I follows
 - D. Only II follows
- Q.208** Measure is to calliper as direction is to
- A. Speed
 - B. Hiking
 - C. Needle
 - D. compass
- Q.209** Complete the series A2, B4, C8, D16, E?
- A. 32
 - B. 34
 - C. 36
 - D. 38

Q.210 Language with the most alphabets is _____

- A. French
- B. Chinese

- C. Portuguese
- D. Urdu

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