

# PMC PRACTICE TEST 12

## PHYSICS

- Q.1** The principle behind the working of cathode ray oscilloscope is  
A. oscillation  
B. half wave rectification  
C. full wave rectification  
D. none of these
- Q.2** Watt-hour measures \_\_\_\_\_  
A. current  
B. electrical energy  
C. power  
D. voltage
- Q.3** According to Faraday law induced voltage is produced by change in  
A. electric field  
B. magnetic field  
C. both a or b  
D. position
- Q.4** A current of 5A flows in a resistor of 2 ohms. Calculate the energy dissipated in 300 seconds in the resistor.  
A. 5KJ  
B. 10KJ  
C. 15KJ  
D. 20 KJ
- Q.5** The value of angular momentum is maximum when  $\theta$  is  
A. 60 degrees  
B. 45 degrees  
C. 0 degree  
D. 90 degrees
- Q.6** If a pipe is closed at one end and open at the other, the closed end is a:  
A. antinode  
B. node  
C. rarefaction  
D. crest
- Q.7** If a person is irradiated accidentally by high radiation what immediate effects would be seen?  
A. skin burning  
B. high blood pressure  
C. fever  
D. any of these
- Q.8** From the following properties of a wave, the one that is independent of the other is its  
A. Amplitude  
B. Frequency  
C. Wavelength  
D. Time period
- Q.9** Work done on a ceiling fan by gravity is  
A. maximum  
B. zero  
C. minimum  
D. infinity
- Q.10** The penetrating power of x rays depends on  
A. frequency  
B. amplitude  
C. wavelength  
D. all of these
- Q.11** Calculate the maximum emf when the velocity is 10m/s, the length is 3m and the magnetic field density is 5T  
A. 150V  
B. 300V  
C. 100V  
D. 0V
- Q.12** Accelerating frame of reference which has constant acceleration is  
A. constant moving car  
B. moving train  
C. freely falling body on earth  
D. none of these
- Q.13** The angular acceleration is similar to  
A. centripetal acceleration  
B. centrifugal acceleration  
C. both a or b  
D. none of these
- Q.14** Which of the following process is reversible?  
A. Transfer of heat by radiation  
B. Electrical heating by nichrome wire  
C. Transfer of heat by conduction  
D. Isothermal compression
- Q.15** A standing-wave pattern is formed when the length of the string is:  
A. an odd multiple of quarter wavelength  
B. an integral multiple of quarter wavelength  
C. an integral multiple of wavelength

- D. an integral multiple of half wavelength
- Q.16** The concept of work function was given by  
 A. Bohr  
 B. Einstein  
 C. Rutherford  
 D. none of these
- Q.17** Michelson determined velocity of light by  
 A. studying rotation of moon and sun  
 B. using interferometer  
 C. using a rotating plane mirror  
 D. using an octagonal rotating mirror
- Q.18** Average dc Voltage across the load in terms of  $V_{max}$  is  
 A.  $0.532 V_{max}$   
 B.  $0.637 V_{max}$   
 C.  $0.759 V_{max}$   
 D.  $0.437 V_{max}$
- Q.19** If a Charge of  $2C$  is travelling parallel to a magnetic field of  $4T$  with  $20\text{ m/s}$  Calculate the net force on it  
 A.  $160N$   
 B.  $120N$   
 C.  $0N$   
 D.  $100N$
- Q.20** The work done can also be calculated by:  
 A. gradient of tangent of the, curve of P-V graph  
 B. area of the curve under P-V graph  
 C. area of the, curve under P-T graph  
 D. gradient of tangent of the, curve of P-T graph
- Q.21** Centre tape rectifier circuit consists of \_\_\_\_\_ diode  
 A. 1  
 B. 200%  
 C. 300%  
 D. 400%
- Q.22** When a body moves vertically upward, the work done will be  
 A. positive  
 B. zero  
 C. negative  
 D. none of these
- Q.23** A monatomic ideal gas is thermally insulated, so no heat can flow between it and its surroundings. Is it possible for the temperature of the gas to rise?  
 A. Yes. The temperature can rise if work is done by the gas  
 B. No. The only way that the temperature can rise is if heat is added to the gas  
 C. Yes. The temperature can rise if work is done on the gas  
 D. No. The only way that the temperature can rise is by adding more molecules in container
- Q.24** If displacements due to two individual waves are  $y_1$  and  $y_2$ . Then the resultant displacement,  $y$ , of the particle of the medium is:  
 A.  $y = y_1 \times y_2$   
 B.  $y = y_1 / y_2$   
 C.  $y = y_1 - y_2$   
 D.  $y = y_1 + y_2$
- Q.25** Gamma rays travel \_\_\_\_\_ distance  
 A. long  
 B. short  
 C. absorbed immediately  
 D. never ending distance
- Q.26** A stone is whirled in a vertical circle at the end of the string. When the stone is at the highest position the tension in the string is?  
 A. Max  
 B. Zero  
 C. Equal to the weight of the stone  
 D. Less than the weight of the stone
- Q.27** Vertical velocity vs time graph for a projectile motion  
 A. Varies linearly  
 B. Follows a parabolic path  
 C. is constant  
 D. is nonlinear
- Q.28** Under a cyclic path, internal energy after complete cycle is same as  
 A. 2(initial)  
 B. initial heat  
 C. initial internal energy  
 D. initial work
- Q.29** \_\_\_\_\_ is a source of electrical energy having fixed polarity and terminals  
 A. Motor  
 B. Metals  
 C. Battery  
 D. Generator
- Q.30** The artifacts and fossils are used to estimate ages by measured \_\_\_\_\_ content  
 A. mineral  
 B. chemical  
 C. radioactive  
 D. all of these

- Q.31** A 4kg eagle picks up a 75g snake and raises it 2.5 m from the ground to a branch. What is the work done by the eagle on the snake? (Assume  $g = 10 \text{ m/s}^2$ )
- A. 100 J  
B. 1.875 J  
C. 18.75 J  
D. 187.5 J
- Q.32** Do magnetic flux lines intersect?
- A. Yes  
B. No  
C. Depends on strength of field  
D. Cannot be determined
- Q.33** A 100 turn coil of area  $0.1 \text{ m}^2$  rotates at half a revolution per second. It is placed in a uniform magnetic field of 0.01 T perpendicular to the axis of rotation of the coil. Calculate the maximum voltage generated in the coil?
- A. 256.33 V  
B. 89.12V  
C. 0.314V  
D. 3.1455 V
- Q.34** The atomic mass unit is unit of
- A. Distance  
B. Mass  
C. Time  
D. None of these
- Q.35** The ratio: gravitational force \_\_\_\_\_ is always: electric force
- A. Greater than unity  
B. Less than unity  
C. Equal to unity  
D. Zero
- Q.36** Superposition of two waves having slightly different frequency, same amplitude and travelling in the same direction, is called:
- A. Interference  
B. Diffraction  
C. Beats  
D. Stationary waves
- Q.37** Electric potential difference between the two points can be defined as:...
- A. Difference of the kinetic energy per unit charge  
B. Difference of the kinetic energy  
C. Difference of the potential energy per unit charge  
D. Difference of the potential energy
- Q.38** If a photon is absorbed by an electron the energy of electron
- A. Increase  
B. Decrease  
C. Remain same  
D. Another photon will be released by electron
- Q.39** The speed of photons in vacuum is \_\_\_\_\_ than in liquid water
- A. Higher  
B. Smaller  
C. Equal  
D. None of these
- Q.40** Ripple factor of full wave rectifier is
- A. 1.21  
B. 0.6  
C. 0.482  
D. 0.9
- Q.41** Two  $\alpha$ -particles have the ratio of their velocities as 3 : 2 on entering the field. If they move in different circular paths, then the ratio of the radii of their paths is
- A. 2 : 3  
B. 3 : 2  
C. 4 : 9  
D. 9 : 4
- Q.42** A surface around a point source of light, on which all the points have the same phase of vibration is known as:
- A. equipotential  
B. surface of sphere  
C. wavefront  
D. ellipsoid
- Q.43** PD stands for
- A. Potential difference  
B. Potential deviation  
C. Power difference  
D. Power dissipated
- Q.44** A constant force of 10 N is applied on a body which causes displacement of 12 cm what will be the work done
- A. 120 J  
B. 12 J  
C. 1.2 J  
D. 18 J

- Q.45** A pipe is filled with a gas and open at one end. If the length of the pipe is 0.6 m and the speed of sound in the gas is 300 m/s. Then frequencies of the first two harmonics are:
- A. 125 Hz and 250 Hz  
B. 250 Hz and 750 Hz  
C. 250 Hz and 500 Hz  
D. 125 Hz and 375 Hz
- Q.46** Gamma rays are attracted towards
- A. negative plate  
B. positive plate  
C. no deflection  
D. pass through the medium
- Q.47** Pseudo forces arise in
- A. inertial frames  
B. constant moving frames  
C. rest frame of reference  
D. accelerating frame of reference
- Q.48** Electric current may be defined as
- A. Rate of flow of charge  
B. Rate of flow of momentum  
C. Rate of flow of power  
D. None of them
- Q.49** One of the major reasons for heat loss in transformer is
- A. Radiation loss  
B. Convection loss  
C. Eddy current loss  
D. None of these
- Q.50** The H atom has \_\_\_\_\_ quarks
- A. 1  
B. 2  
C. 3  
D. 4
- Q.51** 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.52** Two tuning forks produce N beats. If one of these tuning forks has the frequency f, then the frequency of the other would be:
- A.  $N - f$   
B.  $N / f$   
C.  $N \times f$   
D.  $N + f$
- Q.53** One charge enters in magnetic field of  $2 \times 10^{-2}$  T normally with specific charge  $10^8$  C/kg and velocity of  $10^7$  m/s. What will be the radius of circle?
- A. 1 m  
B. 0.5 m  
C. 5 m  
D. 10 m
- Q.54** KE of body is increased by 44 %, what is the percentage increase in the momentum
- A. 10 %  
B. 20 %  
C. 30 %  
D. 44 %
- Q.55** The frame of reference could be
- A. fixed always  
B. not fixed always  
C. at rest  
D. none of these
- Q.56**  $C^{14}$  decays with a half-life of about 5800 years. In a sample of bone the ratio of  $C^{14}$  to  $C^{12}$  is found to be 1/4th of what it is in free air. This bone may belong to a period about X centuries ago, where X is nearest to:
- A.  $2 \times 58$   
B. 58  
C.  $58/2$   
D.  $3 \times 58$

## BIOLOGY

- Q.57** Resolution of human eye is:
- A. 2.0  $\mu\text{m}$   
B. 2.0 mm  
C. 1.0  $\mu\text{m}$   
D. 1.0 mm
- Q.58** Human accumulated glycogen is an example of
- A. phospholipid  
B. polysaccharides  
C. carbohydrates  
D. both b and c
- Q.59** Cellular organelles that interact with hydrogen peroxide are called?
- A. Glyoxysomes  
B. Lysosomes  
C. Ribosomes  
D. Peroxisomes

- Q.60** In some cases the blastomere can produce complete embryo the cleavage will be?  
 A. Spiral and determinate  
 B. Spiral and indeterminate  
 C. Radial and determinate  
 D. Radial and indeterminate
- Q.61** The spinal cord acts as a link between body parts and —  
 A. brain  
 B. skull  
 C. heart  
 D. lungs
- Q.62** The area on the left hemisphere related to speech is called?  
 A. Amygdala  
 B. Broca's area  
 C. Hypothalamus  
 D. Occipital lobe
- Q.63** The chief cells at the base of the gastric glands secrete the zymogen which is called?  
 A. trypsinogen  
 B. pepsin  
 C. trypsin  
 D. pepsinogen
- Q.64** Coelom is lined by which of the following?  
 A. Parietal mesoderm  
 B. Visceral mesoderm  
 C. Mesoderm  
 D. both a and b
- Q.65** The complete, mature and infectious particle is known as?  
 A. Capsid  
 B. Virion  
 C. Bacteriophage  
 D. Nucleus
- Q.66** The random change in allele frequencies is known as?  
 A. genetic drift  
 B. diversity  
 C. linkage  
 D. all of these
- Q.67** Who coined the term Animalcules for microorganisms like Bacteria and protozoa?  
 A. Robert Koch  
 B. Louis Pasteur  
 C. Alexander Fleming  
 D. Leeuwenhoek
- Q.68** Larynx is also called:  
 A. glottis  
 B. voice box  
 C. epiglottis  
 D. both B and C
- Q.69** Which one of the following surrounds the testicles?  
 A. Penis  
 B. Urethra  
 C. sperm duct  
 D. scrotum
- Q.70** The main target in the prevention of lung cancer is eliminating the  
 A. Tobacco smoking  
 B. chemicals  
 C. Pollutants  
 D. Mutagens
- Q.71** Inbreeding increases the frequency of which of the following?  
 A. heterozygous  
 B. genetic diversity  
 C. genetic linkage  
 D. homozygous
- Q.72** In sexual reproduction, plants have diplohaplontic life cycle with alternating?  
 A. Haploid sporophyte and diploid gametophyte generations  
 B. Diploid sporophyte and diploid gametophyte generations  
 C. Haploid sporophyte and haploid gametophyte generations  
 D. Diploid sporophyte and haploid gametophyte generations
- Q.73** Which of the following is true of actin and myosin filaments?  
 A. Troponin, calcium, and tropomyosin interact with the thick filament  
 B. actin molecules are classified as thin filaments, whereas myosin molecules are classified as thick filaments  
 C. Both A and B  
 D. none of these
- Q.74** The organelle serving as a primary packaging area for molecules that will be distributed throughout the cell is?  
 A. vacuole  
 B. plastids  
 C. lysosomes  
 D. golgi apparatus
- Q.75** What type of prokaryotic genetic recombination requires the presence of plasmids?  
 A. Transduction  
 B. Transformation  
 C. Binary fission  
 D. Conjugation

- Q.76 Who sent his theory to Darwin?**  
 A. Mendel  
 C. Lamarck  
 B. Wallace  
 D. Lynn Morgulis
- Q.77 Which tissue attaches the embryo to the wall of uterus?**  
 A. Graafian follicle  
 C. Placenta  
 B. Corpus luteum  
 D. None of these
- Q.78 If all members of a population are homozygous for the same allele, that allele is said to be?**  
 A. Mobile in gene pool  
 C. Stationary in gene pool  
 B. Random in gene pool  
 D. Fixed in gene pool
- Q.79 Which of the following is evidence of a common ancestor?**  
 A. Morphological similarities  
 C. Vestigial characteristics  
 B. Fossil record  
 D. All of these
- Q.80 The calvin cycle begins when carbon dioxide reacts with?**  
 A. NAD  
 C. FADH  
 B. ADP  
 D. RUBP
- Q.81 Assume that a trait is expressed according to the mechanism of complete dominance. Each gene contributes one of two possible alleles. Which of the following statements is true?**  
 A. The genotype is the expressed trait of the individual  
 B. There are three possible phenotypes the organism can express  
 C. If two heterozygous organisms mate, 25% of the progeny will be homozygous  
 D. If two heterozygous organisms mate, 75% of the progeny will display the dominant phenotype
- Q.82 Vitamin which doesn't act as a coenzyme is?**  
 A. Vitamin c  
 C. Vitamin b1  
 B. Vitamin b  
 D. Vitamin b2
- Q.83 The contractile protein of skeletal muscle involving ATPase activity is:**  
 A. actin  
 C. troponin  
 B. myosin  
 D. tropomyosin
- Q.84 Binding of myosin head to actin generates muscle contraction. After muscle contraction the myosin head has to be removed from the actin. Which of the following accomplishes this task?**  
 A. Binding of ATP to tropomyosin  
 C. Binding of troponin to actin  
 B. Binding of calcium to troponin  
 D. Binding of ATP to myosin head
- Q.85 Sertoli cells are responsible for which of the following?**  
 A. Provide liquid medium to cells in testes  
 B. Provide protection and nourishment to cells  
 C. Secrete testosterone  
 D. Both A and B
- Q.86 The fine ends of the bronchioles are called:**  
 A. Bronchi  
 C. Pharynx duct  
 B. Bronchioles  
 D. Alveolar ducts
- Q.87 Amount of oxygen in inspired air is 21 % while in expired air is**  
 A. 0.11  
 C. 0.15  
 B. 0.12  
 D. 0.16
- Q.88 Which one is not a bony fish?**  
 A. Trout  
 C. Shark  
 B. Sea horse  
 D. Tuna
- Q.89 Biomolecules such as starch cellulose and glycogen yield which of the following upon hydrolysis?**  
 A. Maltose  
 C. Glucose  
 B. Sucrose  
 D. Galactose
- Q.90 Which of the following was discovered by J.Seller in 1914 in mouth?**  
 A. XO-XX  
 C. ZZ-ZW  
 B. XY-XX  
 D. None of these

- Q.91 A much smaller and ancient bacteria are present in group**  
 A. Archaeo bacteria  
 B. Lactobacteria  
 C. Eubacteria  
 D. Anaerobic bacteria
- Q.92 During aristotle time, it was thought that**  
 A. Oranisms ranged from simple to complex  
 B. One type of organism give rise to another type of organism  
 C. Both a & b  
 D. All living things specially created by nature
- Q.93 The example of coordinators in chemical coordination is?**  
 A. Endocrine glands  
 B. Spinal cord  
 C. Brain  
 D. Human eyes
- Q.94 What is the size range of Porifera?**  
 A. Few centimeter wide to more than one meter tall  
 B. Few decimeter wide to more than one meter tall  
 C. One meter wide to more than millimeter tall.  
 D. Few millimeter wide to more than one meter tall
- Q.95 Diameter of thick filament is approximately how many nm?**  
 A. 15  
 B. 16  
 C. 17  
 D. 18
- Q.96 Which cell is the longest in the human body?**  
 A. Muscle cells  
 B. Nerve cells  
 C. Bone cells  
 D. Gland cells
- Q.97 Where in the female reproductive system thousands of eggs are found?**  
 A. Ovaries  
 B. Vagina  
 C. Fallopian tube  
 D. Uterus
- Q.98 The stretch reflex is a:**  
 A. Monosynaptic reflex  
 B. Polysynaptic reflex  
 C. Hemi Synaptic reflex  
 D. None of these
- Q.99 What cycle begins when newly formed phages enter the bacteria?**  
 A. Lysogenic cycle  
 B. Lytic cycle  
 C. Both  
 D. None
- Q.100 How many ml of oxygen are present in a litre of water?**  
 A. 10  
 B. 20  
 C. 40  
 D. 200
- Q.101 A bond formed by linkage between -OH of carboxyl group of one amino acid and H of amino group of another amino acid which releases water is called?**  
 A. Glycosidic bond  
 B. Phosphodiester bond  
 C. Peptide bond  
 D. Ionic bond
- Q.102 All of them are NOT fish except:**  
 A. Starfish  
 B. Jellyfish  
 C. Cuttlefish  
 D. Catfish
- Q.103 The optimum pH of Salivary amylase is?**  
 A. 6.8  
 B. 6  
 C. 8.8  
 D. 8
- Q.104 The glycine generated during photorespiration enters:**  
 A. Glyoxysomes  
 B. Mitochondria  
 C. Peroxisomes  
 D. Ribosomes
- Q.105 Where does the AIDS virus infect?**  
 A. RBCs  
 B. WBCs  
 C. Leukocytes  
 D. None
- Q.106 What is pyruvate broken down to, in yeast?**  
 A. Acetyl coA  
 B. Alcohol  
 C. Lactic acid  
 D. All of these

- Q.107** Bacteria are capable of "sharing" genetic material that can be advantageous in certain environments. This type of gene transmission is an example of which of the following?
- A. Transduction  
B. Transformation  
C. Binary fission  
D. Conjugation
- Q.108** A mother is homozygous for blood type A and a father has blood type AB. Which of the following could describe their child's blood type?
- A. A  
B. O  
C. A or AB  
D. B
- Q.109** Vitamins which are not stored in body are called?
- A. Fat soluble vitamins  
B. Minerals  
C. Fats  
D. Water soluble vitamins
- Q.110** All of the following descriptions concerning viral multiplication and nucleic acids are true EXCEPT that:
- A. Viruses contain DNA or RNA, not both.  
B. Viruses replicate only in living cells  
C. Viruses use the cell's biosynthetic machinery to synthesize copies of themselves.  
D. Viral mRNA, viral tRNA, and viral ribosomes are used in viral replication.
- Q.111** What is the product of the ETC in animals?
- A. Oxygen  
B. Carbon dioxide  
C. Water  
D. All of these
- Q.112** Where does germ cells are produced?
- A. Uterus  
B. Ovaries  
C. Eggs  
D. Fallopian tube
- Q.113** The movement of minerals or water via plasmodesmata is known as:
- A. Apoplast  
B. Symplast  
C. Vascular  
D. All of these
- Q.114** Uterus opens into the vagina through:
- A. Uterus  
B. Cervix  
C. Oviduct (fallopian tube)  
D. Ovary
- Q.115** Abscisic acid promotes flowering in short day plants and inhibits in long day plants, which of the following is antagonistic to abscisic acid in terms of flowering?
- A. Gibberellins  
B. Cytokinins  
C. Auxins  
D. Ethene
- Q.116** The cell membrane of a skeletal muscle cell is called:
- A. Sarcoplasm  
B. Sarcolemma  
C. Sarcomere  
D. Myofibrils
- Q.117** The long unbranched, slender tubulin protein is called?
- A. Microtubules  
B. Intermediate filament  
C. Actin  
D. All of these
- Q.118** Which of these is common in both lymph vessels and veins?
- A. Both have small bore  
B. Both have valves  
C. Both have low blood pressure  
D. Both are communicated
- Q.119** Which of the following would most greatly increase the activity of an enzyme functioning in the small intestine?
- A. Decrease the temperature  
B. Increase the amount of enzymes  
C. Decrease the pH  
D. Increase the amount of substrate
- Q.120** Which of the following is not true of virions?
- A. Reproduce independently  
B. Contain DNA  
C. Contain RNA  
D. Extracellular
- Q.121** The oldest mineral discovered so far is which of the following, which dates back to 4.4 billion years.
- A. Iron  
B. Zircon  
C. Diamond  
D. Cadmium



- Q.122 Which statement is true about noncompetitive inhibitors?**  
 A. They bind covalently to the enzyme and disrupt the substrate from attaching  
 B. They bind at the active site of the enzyme  
 C. They actively block the enzyme from attaching to the substrate.  
 D. They alter the conformation of the enzyme.
- Q.123 Which of the following is NOT a bony fish?**  
 A. Perch  
 B. Plaice  
 C. Catfish  
 D. Dogfish
- Q.124 The right side of the body is controlled by:**  
 A. Left cerebral hemisphere  
 B. Right cerebral hemisphere  
 C. Hippocampus  
 D. Corpus callosum

## CHEMISTRY

- Q.125 Classification of Solids is based upon the arrangement of**  
 A. Molecules  
 B. Atoms  
 C. Ions  
 D. All of these
- Q.126 Which of the following suffix is used for the common naming of alkene?**  
 A. -ene  
 B. -ylene  
 C. -yne  
 D. -eylene
- Q.127 Which of the following enzyme is not used during fermentation process for making ethanol?**  
 A. Diastase  
 B. Zymase  
 C. Protease  
 D. Maltase
- Q.128 Concentration of reactants and products are expressed as Moles per unit**  
 A. Area  
 B. Length  
 C. Volume  
 D. None of these
- Q.129 Any specie which carry a positive charge and can accept electrons is called as \_\_\_\_?**  
 A. Electrophile  
 B. Anion  
 C. Nucleophile  
 D. Electrophobic
- Q.130 In Thermodynamic terms boundary separates \_\_\_\_\_?**  
 A. Surrounding from the environment  
 B. Reactants from contamination  
 C. System from surrounding  
 D. Products from the surrounding
- Q.131 Nucleophilic addition reactions of carbonyl compounds can be catalyzed by \_\_\_\_?**  
 A. Acid  
 B. Base  
 C. Water  
 D. Both acid and base
- Q.132 Which one is radioactive?**  
 A. Cs  
 B. Fr  
 C. Li  
 D. K
- Q.133  $dx/dt$  is rate of change of concentration with respect to**  
 A. Temperature  
 B. Pressure  
 C. Time  
 D. None of these
- Q.134 The gas laws describes the \_\_\_\_\_ behavior of gases**  
 A. Abrupt  
 B. Non-uniform  
 C. Uniform  
 D. Disordered
- Q.135 The compounds having -COOH group are called as \_\_\_\_\_?**  
 A. Aldehydes  
 B. Ketones  
 C. Carboxylic acids  
 D. Alcohols
- Q.136 The temperature at which enzyme activity is maximum is called as \_\_\_\_?**  
 A. Maximum temperature  
 B. Absolute temperature  
 C. Critical temperature  
 D. Optimum temperature
- Q.137 Downs Cell is used for the electrolysis of**  
 A. Aqueous NaCl  
 B. Aqueous NaNO<sub>3</sub>  
 C. Fused NaCl  
 D. Fused NaNO<sub>3</sub>

- Q.138 In which of the following reaction steps free radical is formed?**  
 A. Initiation, termination  
 B. Termination, propagation  
 C. Only initiation  
 D. Initiation, propagation
- Q.139 Work done by the system is always**  
 A. Positive  
 B. Zero  
 C. Negative  
 D. Equals to Unity
- Q.140 Soap and detergents show cleansing action because of the presence of \_\_ of molecules**  
 A. Opposite poles  
 B. Polar part  
 C. Non polar part  
 D. Positive end
- Q.141 Standard Reduction potential is found by dipping the electrode in its own Ion with molarity equals to**  
 A. 0.1  
 B. 1  
 C. 1.5  
 D. 0
- Q.142 Which is not a heterocyclic compound?**  
 A. Furan  
 B. Pyrrole  
 C. Pyridine  
 D. Ethane
- Q.143 Which of the following reaction is used to produce symmetrical alkanes from alkyl halides?**  
 A. Wittig reaction  
 B. Kolbe's electrolysis  
 C. Reduction of alkyl halide  
 D. Wurtz reaction
- Q.144 Benzophenone is also known as :**  
 A. Diphenyl ketone  
 B. Ethyl Phenyl ketone  
 C. Tri Phenyl ketone  
 D. None of these
- Q.145 What is the correct general formula of Grignard reagent?**  
 A.  $RMX$   
 B.  $R_2MgX$   
 C.  $RMgX$   
 D.  $RMgX$
- Q.146 The side of the manometer in which mercury rises faces the**  
 A. Atmosphere  
 B. Liquid  
 C. Container  
 D. Gas
- Q.147 Hemoglobin is example of which protein.**  
 A. Transport proteins  
 B. Structural proteins  
 C. Genetic proteins  
 D. Regulatory proteins
- Q.148 When ethyl alcohol is oxidized with potassium dichromate, which product is formed?**  
 A. Acetic acid  
 B. Butanoic acid  
 C. Benzoic acid  
 D. No reaction takes place
- Q.149 Instantaneous dipole-Induced dipole forces are also named as?**  
 A. Debye forces  
 B. Dipole-dipole forces  
 C. London Dispersion forces  
 D. H-bonding
- Q.150 Which one of the following is correct molecular mass of protein?**  
 A. 9000  
 B. Less than 10000  
 C. 10000  
 D. More than 10000
- Q.151 The molecule of water has structure**  
 A. Cubic  
 B. Tetrahedral  
 C. Trigonal  
 D. Hexagonal system
- Q.152 Who was able to determine the distance b/w  $K^+$  and  $Cl^-$  in potassium chloride crystal**  
 A. Bohr's  
 B. Pauling  
 C. Berzelius  
 D. Rutherford
- Q.153 Sum of oxidation numbers of all the molecules in a neutral atom is**  
 A. Unity  
 B. Negative  
 C. 1  
 D. Zero
- Q.154 Phenol is changed into cyclohexanol by the following method**  
 A. Hydrogenation  
 B. Reaction with formaldehyde  
 C. Nitration  
 D. Halogenation

- Q.155 Lanthanides and actinides are also called as \_\_\_\_\_ ?**  
 A. Rare earth elements  
 B. Outer transition elements  
 C. Non typical elements  
 D. Typical transition elements
- Q.156 The amount of energy evolved during the formation of hydrogen molecule is**  
 A. 436.45 KJ/mol  
 B. 444.45 J/mol  
 C. 436.45 J/mol  
 D. 444.45 KJ/Mol
- Q.157 The rate of formation of ammonia is not economical at**  
 A. Low temperature  
 B. Very high pressure  
 C. Both A and B  
 D. None of these
- Q.158 Half-life can be found out for a reaction of**  
 A. First order  
 B. Second Order  
 C. Any Order  
 D. Zero Order
- Q.159 Which of the following is used as disinfectant?**  
 A. Phenylhydrazone  
 B. Phenol  
 C. Acetic acid  
 D. Vinegar
- Q.160 At equilibrium the reaction mixture contains**  
 A. Only Products  
 B. Reactants  
 C. Both  
 D. None of these
- Q.161 Which of the following reaction does acetylene give due to its acidic hydrogens?**  
 A. Ozonolysis  
 B. Hydroxylation  
 C. Acetylide formation  
 D. Kolbe's electrolysis
- Q.162 Which of the following alkyl halide give  $S_N1$  reactions?**  
 A. 1-chloropropane  
 B. 2-chloropropane  
 C. n-butyl chloride  
 D. 2-methyl,2-chloropropane
- Q.163 Which one of the following has highest number of unpaired electrons?**  
 A.  $Fe^{2+}$   
 B.  $Mn^{2+}$   
 C.  $Cr^{3+}$   
 D.  $Zn^{2+}$
- Q.164 How many organic compounds are known \_\_\_\_\_ ?**  
 A. 850000  
 B. Over 6 million  
 C. 6 million  
 D. 5 million
- Q.165 Which one of the following is not the property of a system?**  
 A. Enthalpy  
 B. Internal energy  
 C. Thermal energy  
 D. Temperature
- Q.166 Which of the following are the products of catalytic oxidation of methane?**  
 A.  $CO_2, H_2O$   
 B. CO,  $H_2O$   
 C.  $CO_2, H_2$   
 D.  $CH_3OH$
- Q.167 The tendencies of elements to have relation with each other can be understand by**  
 A. Lowry concept  
 B. Pauling concept  
 C. Lewis concept  
 D. Arrhenius concept
- Q.168 The peaks forms in a mass spectrograph shows number of \_\_\_\_\_ of an element**  
 A. Electrons  
 B. Isotopes  
 C. Protons  
 D. Neutrons
- Q.169 In which of the following benzene is isolated?**  
 A. Naphthalene  
 B. Diphenyl ethane  
 C. Phenanthrene  
 D. Anthracene
- Q.170 Which of the following is a dihydric alcohol?**  
 A. Ethanol  
 B. Methanol  
 C. Glycerol  
 D. Glycol
- Q.171 Which character of p-orbital determines the geometry of molecules**  
 A. Planar  
 B. Axial  
 C. Non directional  
 D. Directional

- Q.172** By changing Pressure at equilibrium which value is changing  
 A. Kc  
 B. Kp  
 C. Equilibrium Position  
 D. All of these
- Q.173** The slope determined by drawing a right angled triangle drawn with tangent as hypotenuse will be same  
 A. With different sizes of triangles drawn  
 B. At different point on curve  
 C. At the start and end of curve  
 D. All of these
- Q.174** Oxidative cleavage of alkenes takes place in the presence of \_\_\_\_\_?  
 A. Acidic cold  $\text{KMnO}_4$   
 B. Warm Acidic  $\text{KMnO}_4$   
 C. Warm alkaline  $\text{KMnO}_4$   
 D. Alkaline cold  $\text{KMnO}_4$
- Q.175** Isoelectronic species have same  
 A. Electronic configuration  
 B. Ionic size  
 C. Reactivity  
 D. Ph
- Q.176** Organic compounds are  
 A. Volatile  
 B. Non-volatile  
 C. Fissible  
 D. None
- Q.177** The most symmetrical crystal system  
 A. Triclinic  
 B. Tetragonal  
 C. Cubic  
 D. Rhombohedral
- Q.178** In Electrochemical Cell Positive Ions are migrated towards  
 A. Anode  
 B. Cathode  
 C. Toward the bottom of the cell  
 D. Towards the walls of the cell
- Q.179** NAD contains which vitamin as cofactor.  
 A. B1  
 B. B2  
 C. C  
 D. B3
- Q.180** Which of the following has greater polarizability?  
 A.  $\text{N}_2$   
 B.  $\text{Cl}_2$   
 C.  $\text{O}_2$   
 D.  $\text{I}_2$

## ENGLISH

- Q.181** It is the duty of every citizen to do his utmost to defend the hardly won freedom of the country.  
 A. It is the duty of every citizen  
 B. to do his utmost  
 C. to defend the hardly won  
 D. freedom of the country.
- Q.182** How we \_\_\_\_\_ to ageing is a choice we must make wisely.  
 A. respond  
 B. absolve  
 C. discharge  
 D. overlook
- Q.183** We will need \_\_\_\_\_ umbrella today.  
 A. a  
 B. an  
 C. the  
 D. no article
- Q.184** What tense is the verb in this sentence? 'They go to college on Mondays.'  
 A. Present  
 B. past  
 C. future  
 D. none of these
- Q.185** The train leaves \_\_\_\_\_ 5 o'clock, hurry up!  
 A. at  
 B. in  
 C. around  
 D. under
- Q.186** The plane \_\_\_\_\_ late because one of the passenger was sick.  
 A. grew up  
 B. blew up  
 C. went off  
 D. took off
- Q.187** Choose the correct sentence.  
 A. He visit the temple frequently.  
 B. He visits the temple frequently.  
 C. He had visiting the temple frequently.  
 D. He have had visited the temple frequently.

- Q.188** Please give me \_\_\_\_ cake that is on the counter.  
 A. a  
 B. an  
 C. the  
 D. no article
- Q.189** We must go and congratulate him for his brilliant performance.  
 A. We must go  
 B. and congratulate him for  
 C. his brilliant  
 D. performance.
- Q.190** Choose the correct sentence.  
 A. The class will begin, next Tuesday 6th September; at 6 p.m.  
 B. The class will begin next Tuesday 6th September at 6 p.m.!  
 C. The class will begin next Tuesday, 6th September. at 6 p.m.  
 D. The class will begin next Tuesday, 6th September, at 6 p.m.
- Q.191** We \_\_\_\_\_ (laugh) at the funny clowns.  
 A. laugh  
 B. laughs  
 C. laughing  
 D. laughed
- Q.192** Ninety rupees \_\_\_\_\_ too much for this bag.  
 A. is  
 B. are  
 C. be  
 D. were
- Q.193** Jovial  
 A. merry  
 B. sad  
 C. sombre  
 D. laborious
- Q.194** Choose the correct spelling of the word  
 A. readey  
 B. raddy  
 C. reddy  
 D. ready
- Q.195** What a tragedy!  
 A. Declarative  
 B. Imperative  
 C. Interrogative  
 D. Exclamatory
- Q.196** Choose the correct sentence.  
 A. Mother said "leave the dishes on the table until we have finished eating."  
 B. Mother said "Leave the dishes on the table until we have finished eating."  
 C. Mother said, "Leave the dishes on the table until we have finished eating."  
 D. Mother said, leave the dishes on the table until we have finished eating.
- Q.197** Choose the correct sentence.  
 A. I did not accompanied them.  
 B. I do not accompanied them.  
 C. I does not accompany them.  
 D. I did not accompany them.
- Q.198** Choose the correct spelling of the word  
 A. comitte  
 B. commite  
 C. committee  
 D. comittee
- Q.199** Further research is needed to find out what side ..... this pill has on a person's digestive system.  
 A. affects  
 B. effects  
 C. defects  
 D. suspects
- Q.200** \_\_\_\_\_ camel is the ship of the desert.  
 A. A  
 B. An  
 C. The  
 D. No article

## LOGICAL REASONING

- Q.201** Statements:  
 I. All film stars are playback singers.  
 II. All film directors are film stars.  
 Conclusions:  
 I. All film directors are playback singers.  
 II. Some film stars are film directors.  
 A. Only conclusion II follows  
 B. Either I or II follows  
 C. Neither I nor II follows  
 D. Both I and II follow

**Q.202 23rd letter of English alphabets is**

- A. X  
C. Z  
B. W  
D. Y

**Q.203 Statements: -**

**Should admission to the professional degrees in Pakistan be given only on merit without any concession to any particular group of students?**

**Arguments:**

**I. Yes. This will improve the quality of the professional institutes and degrees as they will be able to complete the degree successfully.**

**II. No. This will keep a large number of socially and economically backward students out of the reach of professional institutes and degrees.**

- A. If argument I is strong.  
C. If both I and II are strong.  
B. If only argument II is strong  
D. If neither I nor II is strong

**Q.204 I. Since Amna's baby died at birth, she wanted another immediately.**

**II. Amna abducted the infant and took it out of the hospital.**

- 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.

**Q.205 The yard is to inch as quart is to**

- A. Gallon  
C. Milk  
B. Bounce  
D. Liquid

**Q.206 The term "midnight sun" refers to the time when the sun sets at 12 a.m.**

- A. A long period of time when the sun shines in the polar circle  
B. B a full moon  
C. twilight  
D. Both A and B

**Q.207 If a computer has more than one processor then it is known as?**

- A. Uni-process  
C. Multi-threaded  
B. Multiprocessor  
D. Both A and B

**Q.208 Statement: Most of the steel producing companies in the country have made considerable profit during the last financial year. Many Asian countries have been importing huge quantities of steel from Pakistan**

- 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 some common cause

**Q.209 The high school math department needs to appoint a new chairperson, which will be based on seniority. Ms. West has less seniority than Mr. Temple, but more than Ms. Brody. Mr. Rhodes has more seniority than Ms. West, but less than Mr. Temple. Mr. Temple doesn't want the job. Who will be the new math department chairperson?**

- A. Mr. Rhodes  
C. Mr. West  
B. Mr. Temple  
D. Mr. Brody

**Q.210 Here are some words translated from an artificial language. granamelke means big tree pinmelke means little tree melkehoon means tree house Which word could mean big house?**

- A. granahoon  
C. pinihoon  
B. pinishur  
D. melkegrana

**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**