

MDCAT PAST PAPER

2008 UHS MDCAT

Conducted by University of Health Sciences, Lahore, for Punjab

PAPER FORMAT

Punjab entrance test - pre-2020 pattern

Attempt it like the real thing

- Print it, sit in one place, and time yourself strictly
- No notes, no phone, no checking answers as you go
- Mark it from the official answer key at the back
- Group your mistakes by unit before you revise anything

Struggling with a whole unit, not just one question?

The MDCAT Unit Wise Book covers each PMDC syllabus unit separately - see the last pages of this file.

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University of Health Sciences, Lahore



Total MCQs: 220

Max. Marks: 1100

ENTRANCE TEST – 2008

For F.Sc. Students Only

Time Allowed: 150 minutes

Instructions:

- Read the instructions on the MCQs Response Form carefully.
- Choose the **Single Best Answer** for each question.
- Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

COMPULSORY QUESTION FOR IDENTIFICATION

Q-ID. What is the color of your Question Paper?

A) White.

C) Pink.

B) Blue.

D) Green.

Ans: Colour of your Question Paper is Green.

Fill the Circle Corresponding to Letter 'D' against 'ID' in your MCQ response form (Exactly as shown in the diagram).

	A	B	C	D
ID	☐	☐	☐	☒
1	☐	☐	☐	☐
2	☐	☐	☐	☐
3	☐	☐	☐	☐
4	☐	☐	☐	☐

PHYSICS

Q.1 When a helium atom loses an electron, it becomes:

- A) An alpha particle.
B) Proton.

- C) A positive helium ion.
D) A negative helium ion.

Q.2 Beta ray emitted by a radioactive substance is:

- A) An electron which was existing outside the nucleus.
B) An electron which was existing inside the nucleus.
C) An electron emitted by the nucleus as a result of the decay of neutron inside the nucleus.
D) A pulse of electromagnetic wave.

Q.3 An electric charge in uniform motion produces:

- A) An electric field.
B) A magnetic field.
- C) Both magnetic and electric fields.
D) Neither magnetic nor electric fields.

Q.4 What is emitted by a hot metal filament in a cathode ray tube?

- A) X-ray.
B) Proton.
- C) Electron.
D) Photon.

Q.5 If the mass of the bob of a pendulum is doubled its time period is:

- A) Halved.
B) Doubled.
- C) Unchanged.
D) Increases four times.

Q.6 The centre of Newton rings is dark due to:

- A) Polarization.
B) Destructive interference.
- C) Constructive interference.
D) Reflection.



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- Q.7 Which one is most stable element on the basis of binding energy?**
A) Sn. C) Kr.
B) Ba. D) Fe.
- Q.8 Resistance in RC circuit of time constant 2 seconds is 1000 Ohms. What is value of C in the circuit?**
A) 2 μ farad. C) 200 μ farad.
B) 20 μ farad. D) 2000 μ farad
- Q.9 The Lenz's law refers to induced _____**
A) emf. C) Shear.
B) Resistance. D) Currents.
- Q.10 In which of the following, output is similar to NAND gate if input A=0 and input B=1.**
A) NOR. C) XOR.
B) XNOR. D) Both B and C.
- Q.11 For atomic hydrogen spectrum, which of the following series lies in visible region of electromagnetic spectrum?**
A) Lyman series. C) Balmer series.
B) Paschen series. D) Bohr series.
- Q.12 _____ are the particles that experience strong nuclear force.**
A) Electrons. C) Neutrinos.
B) Muons. D) Neutrons.
- Q.13 The vertical velocity of ball thrown upward _____ with time.**
A) Decreases linearly. C) Doubles.
B) Remains constant. D) Decreases parabolically.
- Q.14 The force required to bend the normally straight path of a particle into a circular path is called _____ force.**
A) Traveling. C) Centrifugal.
B) Bending. D) Centripetal.
- Q.15 A disc at rest without slipping, rolls down a hill of height (3 x 9.8) m. What is its speed in m/sec when it reaches at the bottom?**
A) 11.4. C) 22.8.
B) 19.6. D) 9.8.
- Q.16 Tuning of the radio is the best example of electrical _____**
A) Resonance. C) Current.
B) Resistance. D) None of these.
- Q.17 A standing wave pattern is formed when the length of string is an integral multiple of _____ wavelength.**
A) Triple. C) Half.
B) Full. D) Double.
- Q.18 Which of the following lights travels the fastest in optical fibres?**
A) Visible light. C) Ultra-violet.
B) Invisible infra-red. D) Ordinary light.
- Q.19 The algebraic sum of potential changes in a closed circuit is zero is Kirchhoff's _____ rule.**
A) First. C) Third.
B) Second. D) None of these.
- Q.20 In LED when an electron combines with a _____ during forward bias conduction, a photon of visible light is emitted.**
A) High voltage. C) Hole.
B) Photon. D) Positron.

- Q.21** For photons of energy greater than 1.02 MeV the probability of pair production occurrence _____ as the energy increases.
A) Increase. C) Reduces to half.
B) Completely diminishes. D) Remains unchanged.
- Q.22** The neutron is assumed to be made of
A) One up quark and two down quarks. C) Two up quarks and one down quark.
B) Two up quarks and two down quarks. D) One up quark and one down quark.
- Q.23** An _____ missile is called a ballistic missile.
A) Un-powered and guided. C) Powered and guided.
B) Un-guided and powered. D) Un-powered and un-guided.
- Q.24** Two cylinders of equal mass are made from same material. The one with the larger diameter accelerates _____ the other under the action of same torque.
A) Faster than. C) Equal to.
B) Slower than. D) None of these.
- Q.25** The angular frequency of simple pendulum is directly proportional to _____.
A) l . C) $\sqrt{l}$.
B) $1/l$. D) $\sqrt{1/l}$.
- Q.26** Two waves of slightly different frequencies and traveling in same direction produce _____.
A) Interference. C) Stationary waves.
B) Polarization. D) Beats.
- Q.27** A single mode step index fibre has core of about _____ μm diameter
A) 50 to 1000. C) 30.
B) 50. D) 5.
- Q.28** A 5 Ohm resistor is indicated by a single _____ color band around its body.
A) Red. C) Blue.
B) Green. D) Brown.
- Q.29** Practically _____ current flows in a reverse biased p-n junction.
A) No. C) Few milliamperes.
B) Very large. D) Both A and C.
- Q.30** Cesium coated oxidized silver emits electrons for _____ light.
A) Infrared. C) Visible.
B) Ultraviolet. D) Green.
- Q.31** The cobalt is absorbed by
A) Bones. C) Liver.
B) Skin. D) Thyroid gland.
- Q.32** In a step-down transformer the output current _____.
A) Is reduced. C) Remains same.
B) Is increased. D) None of these.
- Q.33** Force in terms of base units is expressed as
A) kg ms^{-2} . C) $\text{kg m}^2\text{s}^{-3}$.
B) $\text{kg m}^2\text{s}^{-2}$. D) None of these.
- Q.34** 100 joules work has been done by an agency in 10 seconds. What is power of agency?
A) 1000 watt. C) 10 watt.
B) 100. D) 0.10 watt.
- Q.35** The acceleration is proportional to the displacement and is directed towards mean position in _____ motion.
A) Gravity. C) Uniform.
B) Simple harmonic. D) Projectile.

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- Q.36** In gases, the speed of sound is inversely proportional to _____ of the density when other factors are same.
A) Square root. C) Third power.
B) Square. D) Third root.
- Q.37** A watch maker uses _____ to repair the watches.
A) Telescope. C) Convex lens.
B) Convex mirror. D) Concave lens.
- Q.38** A 2m long pipe is open at both ends. What is its harmonic frequency?
A) 42.5 Hz. C) 220 Hz.
B) 85 Hz. D) None of these.
- Q.39** A wire has resistance 100 Ohm at 0 °C and 200 Ohm at 100 °C. What is its temperature coefficient in K⁻¹?
A) -0.01. C) 0.01.
B) -1/273. D) 1/273.
- Q.40** The net magnetic field created by the electrons within an atom is due to the field created by their _____ motion.
A) Orbital. C) Orbital & spin.
B) Spin. D) Orbital x spin.
- Q.41** At high temperature, the proportion of _____ wavelength radiation increase.
A) AM radio. C) Shorter.
B) Long radio. D) Both A and C.
- Q.42** In photoelectric effect removal of photons is observed at _____ energies.
A) Low. C) Intermediate.
B) High. D) Both A and C.
- Q.43** Which device is the most efficient?
A) Nuclear reactor. C) Silicon solar cell.
B) Storage battery. D) Dry battery cell.
- Q.44** The units of E in $E=mc^2$ are
A) kg m s⁻². C) kg m² s⁻².
B) N m s⁻². D) Both B and C.
- Q.45** Work done on a body equals change in its _____ energy.
A) Total. C) Kinetic.
B) Potential. D) All of these.
- Q.46** A pipe varies uniformly in diameter from 2 m to 4 m. An incompressible fluid enters the pipe with velocity 16m/sec. What is velocity of fluid when it leaves the pipe?
A) 64 m/sec. C) 8 m/sec.
B) 32 m/sec. D) 4 m/sec.
- Q.47** Transverse waves cannot be setup in _____.
A) Metals. C) Fluids.
B) Solids. D) Soil.
- Q.48** The ratio of the _____ is called magnification.
A) Image size to object size. C) Eyepiece size to object size.
B) Object size to image size. D) None of these
- Q.49** Which of the following has the highest resistivity?
A) Germanium. C) Copper.
B) Silver. D) Platinum.
- Q.50** An n-type semi-conductor is made by doping silicon crystal with _____.
A) Indium. C) Arsenic.
B) Aluminium. D) Both B and C.

- Q.51** Objects cannot be accelerated to the speed of light in free space is consequence of
 A) Mass variation. C) Inertia forces.
 B) Energy-mass relationship. D) All of these.
- Q.52** A certain radioactive mass decays from 64 gm to 2 gm in 20 days. What is its half-life?
 A) 5 days. C) 10 days.
 B) 4 days. D) 6 days.
- Q.53** If inductance is denoted by L and resistance by R , which of the following is true for a choke?
 A) R is large, L is very small. C) Both R and L are large.
 B) R is very small, L is large. D) Both R and L are very small.
- Q.54** A force $2\mathbf{i} + \mathbf{j}$ has moved its point of application from (2,3) to (6,5). What is work done?
 A) -10. C) -18.
 B) +10. D) +18.
- Q.55** The escape velocity corresponds to _____ energy gained by body, which carries it to an infinite distance from the surface of earth.
 A) Total. C) Initial kinetic.
 B) Potential. D) None of these.
- Q.56** The drag force decreases as the speed of an object moving through fluid _____.
 A) Increases. C) Remains constant.
 B) Decreases. D) Both B and C.
- Q.57** Light year is a measure of
 A) Distance. C) Intensity of light.
 B) Time. D) Velocity.
- Q.58** A yellow light of wavelength 500 nm emitted by a single source passes through two narrow slits 1 mm apart. How far apart are two adjacent bright fringes when interference is observed on a screen 10 m away?
 A) 5 mm. C) 0.5 mm.
 B) 1.33 mm. D) 50 mm.
- Q.59** The heat produced by a current I in the wire of resistance R during time interval t is
 A) I^2/Rt . C) $I^2/R/t$.
 B) I^2Rt . D) IR^2t .
- Q.60** Which of the following is the most ductile?
 A) Glass. C) Cast iron.
 B) Copper. D) High carbon steel.

CHEMISTRY

- Q.61** Which type of bonding is present in NH_4Cl ?
 A) Ionic. C) Coordinate covalent.
 B) Covalent. D) All of these.
- Q.62** When CuSO_4 is electrolyzed in aqueous solution using copper electrodes, then the substance which deposits at the cathode is:
 A) Copper metal. C) Hydrogen.
 B) Copper ions. D) Oxygen.
- Q.63** Aldehydes can be synthesized by the oxidation of
 A) Primary alcohols. C) Organic acids.
 B) Secondary alcohols. D) Inorganic acids.
- Q.64** The products of the fermentation of a sugar are ethanol and
 A) Water. C) Carbon dioxide.
 B) Oxygen. D) Sulfur dioxide.

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- Q.65** _____ serve as carriers of heredity from one generation to the other.
A) Lipids. C) Formaldehydes.
B) Caseins. D) Nucleoproteins.
- Q.66** _____ extraction is controlled by partition law.
A) Iodine. C) Solvent.
B) Benzoic acid. D) Stationery.
- Q.67** The process of effusion is best understood by _____ law.
A) Graham's. C) Boyle's.
B) Charles's. D) None of these.
- Q.68** _____ has dipole moment.
A) CO. C) Benzene.
B) CO₂. D) All of these.
- Q.69** _____ is used as catalyst in Haber's process for NH₃ gas manufacture.
A) Iron. C) Copper.
B) Carbon. D) Silver.
- Q.70** In many of its properties _____ is quite different from the other alkali metals.
A) Li. C) Na.
B) Be. D) K.
- Q.71** Which element forms long chains alternating with oxygen?
A) Carbon. C) Nitrogen.
B) Silicon. D) All of these.
- Q.72** The percentage of carbon in medium carbon steel is
A) 0.7-1.5. C) 0.2-0.7.
B) 0.1-0.2. D) 1.6-2.00.
- Q.73** Name the rare halogen among the following.
A) F. C) I.
B) Cl. D) At.
- Q.74** Which bond will break when electrophile attacks an alcohol?
A) O – H. C) Both A and B.
B) C – O. D) None of these.
- Q.75** The extent of un-saturation in a fat is expressed as its
A) Acid number. C) Saponification number.
B) Iodine number. D) None of these.
- Q.76** The process of filtration is used to separate _____ particles from liquids.
A) Radial. C) Insoluble.
B) Angular. D) Soluble.
- Q.77** London forces are very significant in _____.
A) Sulphur. C) Argon.
B) Phosphorous. D) Sugar.
- Q.78** Which of the following formation is endothermic reaction?
A) $2\text{H}_2(\text{g}) + \text{O}_2(\text{g}) \longrightarrow 2\text{H}_2\text{O}(\text{l})$. C) $\text{N}_2(\text{g}) + \text{O}_2(\text{g}) \longrightarrow \text{N}_2\text{O}_2(\text{g})$.
B) $\text{C}(\text{s}) + \text{O}_2(\text{g}) \longrightarrow \text{CO}_2(\text{g})$. D) None of these.
- Q.79** Name the partially miscible liquids from the following?
A) Alcohol-ether. C) Benzene-water.
B) Nicotine-water. D) Both A and B.
- Q.80** AlI₃ (Aluminium Iodide) is electrically a _____.
A) Conductor. C) Semiconductor.
B) Non-conductor. D) None of these.

- Q.81** The elements of IIIA to VIIIA subgroups except He are known as _____ block elements.
- A) q. C) p.
B) s. D) None of these.
- Q.82** Concentrated nitric acid gives _____ when it reacts with tin.
- A) Nitric oxide. C) Ammonium nitrite.
B) Meta stannic acid. D) None of these.
- Q.83** Sulphuric acid is used to manufacture
- A) HCl and HNO_3 . C) Both A and B.
B) H_3PO_4 . D) Both HCl and 2COOH .
- Q.84** Alkanes containing _____ carbon atoms are waxy solids.
- A) up to 4. C) 18 or more.
B) 5 to 17. D) None of these.
- Q.85** Which of the following is used to make chloral hydrate?
- A) Acetaldehyde. C) None of these.
B) Formaldehyde. D) Both A and B.
- Q.86** Ten moles of hydrogen are allowed to react with 6 moles of oxygen. How much water will be obtained from reaction on complete consumption of one gas?
- A) 10 moles. C) 6 moles.
B) 8 moles. D) 4 moles.
- Q.87** The highest temperature a substance can exist as _____ is called its critical temperature.
- A) Solid. C) Gas.
B) Liquid. D) Isotope.
- Q.88** _____ hybridization leads to a regular tetrahedral structure.
- A) sp^3 . C) sp.
B) sp^2 . D) All of these.
- Q.89** Osmotic pressure of a solution is _____ property.
- A) Obligative. C) Colligative.
B) Fractional. D) Automated.
- Q.90** Magnesium reacts with hydrogen at high pressure in the presence of catalyst _____ forming magnesium hydride.
- A) Dolomite. C) Mg_3N_2 .
B) MgI_2 . D) Epsom salt.
- Q.91** Which element has the largest number of allotropic forms?
- A) Phosphorous. C) Oxygen.
B) Sulphur. D) Both A & C.
- Q.92** With increase in number of unpaired electrons, paramagnetism:
- A) Increases. C) Remains constant.
B) Decreases. D) Decreases then increases.
- Q.93** Which metal is commonly used to remove air bubbles from molten metals?
- A) Aluminium. C) Sodium.
B) Copper. D) Calcium.
- Q.94** Which of the following bonds has minimum bond energy?
- A) C – F. C) C – I.
B) C – Cl. D) C – Br.
- Q.95** Which of the following does not react with water?
- A) Li. C) Mg
B) Na. D) Be.

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- Q.96** $\text{Al}_2\text{O}_3(\text{SiO}_2) \cdot 2\text{H}_2\text{O}$ is called
A) Clay.
B) Talc.
C) Asbestos.
D) None of these.
- Q.97** CaO forms fertilizer slag by reacting with
A) P_2O_5 .
B) Fe_2O_3 .
C) Silica.
D) FeO .
- Q.98** _____ is colorless volatile liquid at room temperature.
A) HCl .
B) HF .
C) HI .
D) HBr .
- Q.99** Hydrogen passed through phenol at 150°C in the presence of _____ catalyst gives cyclohexanol.
A) Tin.
B) Nickel.
C) Iron.
D) Sodium.
- Q.100** Ethanol-water is _____ mixture.
A) Azeotropic.
B) Ideal.
C) Benedict's.
D) Aliphatic.
- Q.101** The mobile phase in paper chromatography is usually
A) An organic liquid.
B) Sulphuric acid.
C) Water.
D) Silver nitrate.
- Q.102** The amount of heat absorbed by one mole of solid at 1 atm when it melts into liquid form is denoted by _____
A) ΔH_v .
B) ΔH_f .
C) ΔH_i .
D) ΔH_s .
- Q.103** In synthetic fibres _____ bonding is responsible for tensile strength.
A) Nitrogen.
B) Hydrogen.
C) Oxygen.
D) None of these.
- Q.104** Boiling point of HF is _____ H_2O .
A) Lower than.
B) Higher than.
C) Equal to.
D) Almost same as.
- Q.105** _____ is necessary for development of leaves and it tends to accumulate in leaves and bark.
A) NO_2 .
B) Calcium.
C) Gypsum.
D) Nitrogen.
- Q.106** Which of the following is pale yellow to reddish yellow in color?
A) Pb_2O .
B) PbO_2 .
C) PbO .
D) $2\text{PbCO}_3 \cdot \text{Pb(OH)}_2$.
- Q.107** In which of the following carbon is double bonded with itself?
A) Alkane.
B) Ether.
C) Alkene.
D) Alkyne.
- Q.108** In this process, higher hydrocarbons can be cracked at lower temperature and lower pressure.
A) Thermal cracking.
B) Catalytic cracking.
C) Steam cracking.
D) Reforming.
- Q.109** Acetic acid is called _____ acid.
A) Methanoic.
B) Propanoic.
C) Ethanoic.
D) Butanoic.
- Q.110** Na may be denoted by _____ electron configuration notation
A) $1s^2 2s^1$.
B) $[\text{Ar}] 4s^1$.
C) $[\text{Ne}] 3s^1$.
D) None of these.

- Q.111 Which is the best drying agent in desiccators?**
 A) KOH. C) CaCl_2 .
 B) Gypsum. D) Silica sand.
- Q.112 100 m^3 of a gas at 3 atm pressure and 27°C is transferred to a chamber of 300 m^3 volume maintained at a temperature of 327°C . What will be the pressure in chamber?**
 A) 6 atm. C) 2 atm.
 B) 4 atm. D) 1 atm.
- Q.113 The crystals of _____ are ionic solids.**
 A) Sugar. C) Diamond.
 B) Iron. D) NaCl.
- Q.114 Which material possesses the highest pH?**
 A) Soft drinks. C) Milk of magnesia.
 B) Bananas. D) Sea water.
- Q.115 The electron present in a particular orbit _____ energy.**
 A) Releases. C) Absorbs.
 B) Does not radiate. D) None of these.
- Q.116 $\text{Al}_2\text{F}_2\text{SiO}_4$ is named as**
 A) Gibbsite. C) Bauxite.
 B) Emerald. D) Cryolite.
- Q.117 Name the oxide in which N has the highest oxidation number.**
 A) Nitrous oxide. C) Nitrogen peroxide.
 B) Nitric oxide. D) Nitrous anhydride.
- Q.118 Sulphur has oxidation state of _____**
 A) ± 2 . C) None of these.
 B) + 4 and +6. D) Both A and B.
- Q.119 $\text{CH}_3\text{-O-CH}_3$ is example of _____ isomerism.**
 A) Metamerism. C) Chain.
 B) Functional group. D) Position.
- Q.120 _____ are product of reaction of an alcohol and aromatic bi-functional acids.**
 A) Acrylic resins. C) PVCs.
 B) Polyester resins. D) Polyamide resins.

ENGLISH

- Q.121 He was _____ of all valuable possessions.**
 A) Robbed. C) Pinched.
 B) Stolen. D) Established.
- Q.122 The presence of armed guards _____ us from doing anything disruptive.**
 A) Defeated. C) Irritated.
 B) Excited. D) Prevented.
- Q.123 Our flight was _____ from Lahore to Islamabad airport.**
 A) Diverted. C) Deflected.
 B) Reflected. D) Shifted.
- Q.124 I am _____ forward to our picnic scheduled in next month.**
 A) Looking. C) Seeing.
 B) Planning. D) Going.

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⇒ **SPOT THE ERROR:** In the following sentences, some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected. Fill the Circle corresponding to that letter under the segment in the MCQ Response Form.

- Q.125** They did not guess how closely he had kept in touch with across the road.
A) B) C) D)
- Q.126** He proved that if only germs were excluded of wounds, inflammation was averted.
A) B) C) D)
- Q.127** The man felt his hair flutter and the tissues of his body drew tight as if he were standing at the centre of a vacuum.
A) B) C) D)
- Q.128** He came to the hurdles that he remember, over which once he had so easy a victory.
A) B) C) D)
- Q.129** What is meant by birth-rate and death-rate and how do they effect the population?
A) B) C) D)
- Q.130** She had left him with a calmness and a poise that accord well with his own inward emotions.
A) B) C) D)

⇒ In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.

- Q.131**
A) He lacked both the training and the equipment needed in the job.
B) He lacked both the training and the equipment needed by the job.
C) He lacked both the training and the equipment needed on the job.
D) He lacked both the training and the equipment needed for the job.
- Q.132**
A) They tried to pacify him for kindness and affection. C) They tried to pacify him by kindness and affection.
B) They tried to pacify him in kindness and affection. D) They tried to pacify him with kindness and affection.
- Q.133**
A) Then he sat down in corner and remained quiet. C) Then he sat down in corner and remain quiet.
B) Then he sat down in corner and remained quite. D) Then he sat down in corner and remained quiet.
- Q.134**
A) He was drenched with the hotness of his fear. C) He was drenched by the hotness of his fear.
B) He was drenched in the hotness of his fear. D) He was drenched off the hotness of his fear.
- Q.135**
A) Why did you disagree with me? C) Why did you disagree on me?
B) Why did you disagree to me? D) Why did you disagree by me?
- Q.136**
A) Do not stuff your head by things you do not understand.
B) Do not stuff your head with things you do not understand.
C) Do not stuff your head for things you do not understand.
D) Do not stuff your head in things you do not understand.
- Q.137**
A) A day later he reached his first glimpse of Lahore.
B) A day later he took his first glimpse of Lahore.
C) A day later he found his first glimpse of Lahore.
D) A day later he caught his first glimpse of Lahore.

Q.138

- A) This will have a bad impact to the economy.
 B) This will have a bad impact on the economy.
 C) This will have a bad impact at the economy.
 D) This will have a bad impact over the economy.

Q.139

- A) It would save him from dying of thirst.
 B) It would save him from dying from thirst.
 C) It would save him from dying with thirst.
 D) It would save him from dying by thirst.

Q.140

- A) All this flashed by his mind in an instant of protest.
 B) All this flashed on his mind in an instant of protest.
 C) All this flashed through his mind in an instant of protest.
 D) All this flashed by off mind in an instant of protest.



In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

Q.141 **VEXING**

- A) Annoying.
 B) Aggressive.
 C) Viable.
 D) Waxy.

Q.142 **VAGUE**

- A) Respectful.
 B) Uncertain.
 C) Warlock.
 D) Snow white.

Q.143 **MANGLED**

- A) Dodged.
 B) Grained.
 C) Indisputable.
 D) Damaged.

Q.144 **PRODIGIOUS**

- A) Productive.
 B) Enormous.
 C) Prudential.
 D) Waddle.

Q.145 **ASTOUNDED**

- A) Shocked.
 B) Discarded.
 C) Assured.
 D) Attracted.

Q.146 **SAGACITY**

- A) Foolishness.
 B) Large City.
 C) Onions.
 D) Wisdom.

Q.147 **GRIM**

- A) Gratis.
 B) Restless.
 C) Severe.
 D) Grater.

Q.148 **INDOLENTLY**

- A) Lazily.
 B) Indecently.
 C) Ideally.
 D) Gaily.

Q.149 **PERISH**

- A) Furious.
 B) Come to death.
 C) Secret.
 D) Frustrated.

Q.150 **DOZE**

- A) Dogged.
 B) Diet.
 C) Sleep.
 D) Medicine to be taken.

BIOLOGY

Q.151 **Which of the following receptors produce sensation of pain?**

- A) Mechanoreceptor.
 B) Nociceptors.
 C) Chemoreceptors.
 D) Thermoreceptors.

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- Q.152 When your finger accidentally gets caught in a door, the pain message is sent to your brain through _____.**
A) Homeostasis. C) Caffeine.
B) Sensory receptors. D) The medulla.
- Q.153 Neck has _____ type of joint.**
A) Ball and socket. C) Hinge.
B) Pivot. D) Fibrous.
- Q.154 End product of hemoglobin break down is:**
A) Creatinine. C) Hypoxanthin.
B) Bilirubin. D) Xanthin.
- Q.155 In what direction, can a DNA polymerase work when catalyzing the addition of nucleotide monomers to build a strand of DNA?**
A) From the 5' toward the 3' end of the new strand being assembled.
B) From the replication centers in two directions called replication forks.
C) From the 3' to the 5' end of the strand being assembled.
D) In both directions if DNA ligase is present.
- Q.156 Which bond is the potential source of chemical energy for cellular activities?**
A) C-N. C) C-H.
B) C-O. D) H-O.
- Q.157 Sharks and rays are included in class:**
A) Cydostomata. C) Osteichthyes.
B) Chondrichthyes. D) Tetrapoda.
- Q.158 In what stage of aerobic respiration are 2-carbon molecules oxidized completely to carbon dioxide?**
A) Glycolysis. C) Krebs cycle.
B) ETC. D) Calvin cycle.
- Q.159 Which of the following does not have specialized respiratory organs?**
A) Hydra. C) Cockroach.
B) Birds. D) Both A and B.
- Q.160 Humming birds belong to the category**
A) Heterotherms. C) Ectotherms.
B) Endotherms. D) None of these.
- Q.161 Syphilis is caused by**
A) Neisseria gonorrhoeae. C) Treponema pallidum.
B) Cats worm. D) Herpes simplex.
- Q.162 In moths' male is _____**
A) Heterogametic. C) Homogametic.
B) Dieogametic. D) Both B and C.
- Q.163 When carbon dioxide pressure increases the capacity of haemoglobin to hold oxygen:**
A) Increases many folds. C) Remains constant.
B) Decreases. D) Is doubled.
- Q.164 The soluble part of the cytoplasm is termed as**
A) Cisternae. C) Endocytosis.
B) Cytosol. D) Both A and B.
- Q.165 Name the enveloped RNA virus that causes infusion hepatitis.**
A) HBV. C) HCV.
B) HAV. D) None of these.
- Q.166 In general, asexual reproduction is common in**
A) Humans. C) Deuteromycota.
B) Basidiomycota. D) Basidiospores.

- Q.167 Name the vertebrates which are without jaws.**
A) Osteichthyes. C) Chondrichthyes.
B) Cyclostomata. D) None of these.
- Q.168 The total inside capacity of lungs of adult human beings when fully inflated is**
A) 5 ml. C) 500 ml.
B) 50 ml. D) 5000 ml.
- Q.169 Which of the following belong to collenchyma cells?**
A) Fibers. C) Sclereides.
B) Vessels. D) None of these.
- Q.170 Which of the following promotes both leaf and fruit growths?**
A) Auxins. C) Abscissic acid.
B) Gibberellins. D) Ethane.
- Q.171 Name the external factor of growth in plants**
A) Carbon dioxide. C) Hormones.
B) Water. D) Nutrition.
- Q.172 The genes of blue opsin are present on**
A) Autosome 9. C) Autosome 1.
B) Autosome 7. D) Autosome 3.
- Q.173 The dew drops on tips of grass leaves is an example of**
A) Infestation. C) Exudation.
B) Bleeding. D) Imbibition.
- Q.174 Which of the following modifies proteins and lipids by adding carbohydrates?**
A) Golgi Apparatus. C) Plasma membrane.
B) Polysome. D) None of these.
- Q.175 Which of the following are spiral-shaped bacteria?**
A) Cocci. C) Pseudomonas.
B) Bacilli. D) Vibrio.
- Q.176 Which of the following is used for lowering blood cholesterol?**
A) Neurospora. C) Aspergillus.
B) Griseofulvin. D) Lovastatin.
- Q.177 Which of the following are called placental mammals?**
A) Prototheria. C) Metatheria.
B) Eutheria. D) All of these.
- Q.178 The attraction among water molecules which hold water together is called**
A) Tension. C) Cohesion.
B) Adhesion. D) Ambibition.
- Q.179 Pick the paratonic movement from the following**
A) Nastic. C) Growth.
B) Turgor. D) Tactic.
- Q.180 It controls the several automatic functions like breathing, heart rate and blood pressure:**
A) Midbrain. C) Medulla.
B) Pons. D) Cerebellum.
- Q.181 Which of the following has 40 chromosomes?**
A) Corn. C) Frog.
B) Sugarcane. D) Mouse.
- Q.182 The cell suspension culture of _____ produces quinine.**
A) Soybean. C) Digitalis lanata.
B) Cinchona ledgeriana. D) Luceferin.

Page 14 of 16**Q.183 Which one of the following is most slender in structure?**

- A) Microtubules.
- B) Micro filaments.
- C) Intermediate filaments.
- D) Both A and B.

Q.184 Name the human tissues that contain about 85% water.

- A) Nerve cells.
- B) Bone cells.
- C) Brain cells.
- D) None of these.

Q.185 Which of the following are colorless?

- A) Chloroplasts.
- B) Chromoplasts.
- C) Leucoplasts.
- D) None of these.

Q.186 Name the one involved in DNA replication.

- A) Cysts.
- B) Mesosomes.
- C) Ribosomes.
- D) Spores.

Q.187 Which of the following has rootless sporophytes?

- A) Psilopsida.
- B) Tracheophyta.
- C) Lycopsida.
- D) Sphenopsida.

Q.188 Chlorophylls absorb mainly _____ wave length.

- A) Yellow.
- B) Green.
- C) Violet-blue.
- D) Indigo.

Q.189 _____ did not have the adaptations to remove the flooding of their cells in fresh water.

- A) Both B, D.
- B) Hydrophytes.
- C) None of B, D.
- D) Xerophytes.

Q.190 Which of the following is made up of bones and cartilage?

- A) Endoskeleton.
- B) Exoskeleton.
- C) Hydrostatic skeleton.
- D) Both A and B.

Q.191 This disease is characterized by the decline in brain function.

- A) Alzheimer's disease.
- B) Parkinson's disease.
- C) Epilepsy.
- D) None of these.

Q.192 Prophase, metaphase and telophase are subdivisions of

- A) Mitosis.
- B) Karyokinesis.
- C) Cytokinesis.
- D) None of these.

Q.193 _____ organs are functionally different but structurally alike.

- A) Analogous.
- B) Unilogenous.
- C) Homologous.
- D) Hypologous.

Q.194 Which of the following gives blue color with iodine?

- A) Starch.
- B) Cellulose.
- C) Glycogen.
- D) All of these.

Q.195 Herpes simplex is caused by _____ virus.

- A) Enveloped RNA.
- B) RNA tumor.
- C) Glycogen.
- D) Both B and C.

Q.196 Name the cyanobacteria which are helpful in fixing atmospheric nitrogen.

- A) Heterocysts.
- B) Nostoc.
- C) Akinetes.
- D) Hormogonia.

Q.197 Name the class that contains seedless plants.

- A) Angiospermae.
- B) Gymnospermae.
- C) Paraphsys.
- D) Filicineae.

Q.198 Which form of anaerobic respiration occurs in muscle cell of humans and other animals during extreme physical activities?

- A) Alcoholic fermentation.
- B) Lactic acid fermentation.
- C) Glycolysis.
- D) Pyruvic acid oxidation.

- Q.199** How much water approximately is required to excrete 1 kg of ammonia nitrogen?
A) 500 ml. C) 300 litre.
B) 5 litre. D) 500 litre.
- Q.200** Which disease causes immobility and fusion of vertebral joint?
A) Sciatica. C) Disc slip.
B) Spondylosis. D) Rickets.
- Q.201** Which hormone continues to promote protein synthesis throughout the body even after the cease in growth?
A) TSH. C) ACTH.
B) ADH. D) STH.
- Q.202** Position of a gene on the chromosome is called its
A) Phenotype. C) Junction.
B) Locus. D) Genotype.
- Q.203** Pick the biotic component from the following.
A) Soil. C) Atmosphere.
B) Water. D) Animals.
- Q.204** The two strands in DNA are coiled _____ to each other.
A) Parallel. C) Both A, B.
B) Antiparallel. D) None of these.
- Q.205** Name the class without antennae.
A) Arachnida. C) Insecta.
B) Myriapoda. D) Crustacea.
- Q.206** The African sleeping sickness is caused by _____.
A) Entamoeba histolytica. C) Zooflagellates.
B) Trypanosoma. D) Ciliates.
- Q.207** Which of the following does not belong to angiospermic families?
A) Picea. C) Rosaceae.
B) Poaceae. D) Fabaceae.
- Q.208** Name the nutrition resulted by feeding on dead and decaying matter.
A) Saprophytic. C) Symbiotic.
B) Parasitic. D) Both B and C.
- Q.209** How many grams of nitrogen can be eliminated in form of uric acid by 50 ml of water?
A) 20. C) 30.
B) 25. D) 50.
- Q.210** Which disease is caused by low calcium in the blood?
A) Tetany. C) Muscle fatigue.
B) Cramp. D) Sciatica.
- Q.211** It is known that red light _____ flowering in the long day plants.
A) Synchronizes. C) Promotes.
B) Inhibits. D) Does not affect.
- Q.212** The colour phenotype of the grain is the sum of individual effects of _____ alleles.
A) Six. C) Four.
B) Five. D) Five or three.
- Q.213** In _____ zone the light is insufficient to support photosynthesis.
A) Desert. C) Littoral.
B) Profundal. D) All of these.

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- Q.214 The optimum temperature for enzymes of human body is**
A) 32 °F. C) 313 K.
B) 46 °C. D) 37 °C.
- Q.215 Which of the following damages wooden ships?**
A) Sepia. C) Teredo.
B) Limax. D) Ostrea.
- Q.216 Which of the following may build coral reefs along with coral animals?**
A) Myxomycota. C) Green algae.
B) Brown algae. D) Red algae.
- Q.217 Which of the following do not have a body cavity?**
A) Pseudocoelomata. C) Coelomata.
B) Acoelomata. D) None of these.
- Q.218 Name the neurotic disorder characterized by bouts of over eating of fattening foods.**
A) Bulimia nervosa. C) Anorexia nervosa.
B) Dyspepsia. D) Salmonella.
- Q.219 Which one of these is an example of tubular excretory system called metanephridia?**
A) Planaria. C) Cockroach.
B) Hydra. D) Earthworm.
- Q.220 Name the human tissues that contain about 85% water**
A) Nerve cells. C) Brain cells.
B) Bone cells. D) None of these.

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Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans
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1	C	47	C	93	A	139	A	185	C
2	B	48	A	94	C	140	C	186	B
3	C	49	B	95	X	141	A	187	A
4	C	50	C	96	A	142	B	188	C
5	C	51	D	97	C	143	D	189	B
6	B	52	B	98	B	144	B	190	A
7	D	53	B	99	B	145	A	191	A
8	C	54	B	100	A	146	D	192	B
9	D	55	C	101	A	147	C	193	C
10	C	56	B	102	B	148	A	194	A
11	C	57	A	103	D	149	B	195	X
12	D	58	A	104	B	150	C	196	A
13	C	59	B	105	B	151	B	197	D
14	D	60	B	106	C	152	B	198	B
15	A	61	C	107	C	153	B	199	D
16	A	62	A	108	B	154	B	200	D
17	C	63	A	109	C	155	B	201	D
18	B	64	C	110	C	156	A	202	B
19	B	65	D	111	C	157	B	203	D
20	C	66	C	112	C	158	C	204	B
21	A	67	A	113	D	159	A	205	A
22	A	68	A	114	C	160	A	206	B
23	D	69	A	115	B	161	C	207	A
24	A	70	A	116	B	162	C	208	A
25	D	71	D	117	D	163	B	209	D
26	D	72	C	118	D	164	B	210	A
27	D	73	D	119	B	165	C	211	C
28	B	74	A	120	B	166	C	212	A
29	D	75	B	121	A	167	B	213	B
30	A	76	C	122	D	168	A	214	D
31	C	77	C	123	A	169	D	215	C
32	B	78	C	124	A	170	B	216	D
33	A	79	B	125	D	171	A	217	B
34	C	80	B	126	A	172	B	218	A
35	B	81	C	127	A	173	C	219	D
36	A	82	C	128	B	174	A	220	C
37	C	83	D	129	D	175	D		
38	B	84	C	130	D	176	D		
39	D	85	A	131	D	177	B		
40	D	86	A	132	D	178	C		
41	D	87	B	133	D	179	A		
42	D	88	A	134	B	180	C		
43	A	89	C	135	A	181	D		
44	C	90	B	136	B	182	B		
45	D	91	A	137	D	183	D		

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