

PGIMER B.SC PARAMEDICAL SAMPLE PAPER 05

A) Time Allowed: 1 Hour 30 Minutes.

B) Maximum Marks: 100

C) Total Questions: 100

General Instructions:

- This paper consists of five sections: Biology (25), Chemistry (25), Physics (25), English (10), and General Knowledge (15).
- Each question has four options (A, B, C, D), with only one correct answer.
- +1 mark is awarded for each correct answer and 0.25 marks are deducted for each incorrect answer.
- The question paper is available in English language only.

SECTION 1 : PHYSICS

Q1. A particle moves in a circle of radius R with a constant angular acceleration α . The tangential acceleration is:

- A) $R\alpha$
- B) $R\alpha^2$
- C) R/α
- D) α^2/R

Q2. The potential energy of a particle in a force field is

$$U(x) = ax^2 - bx.$$

The force is zero at:

- A) $x = 0$
- B) $x = b/2a$
- C) $x = a/b$
- D) $x = 2a/b$

Q3. For a body in pure rolling without slipping, the ratio of rotational kinetic energy to total kinetic energy is:

- A) 1:2
- B) 1:3
- C) 2:5
- D) 2:7

Q4. A pipe open at both ends has a fundamental frequency f . If one end is closed, the fundamental frequency becomes:

- A) $f/2$
- B) $2f$
- C) f
- D) $4f$

Q5. The entropy change for a reversible adiabatic process is:

- A) Positive
- B) Negative
- C) Zero
- D) Infinite

Q6. An electron and a proton have the same de-Broglie wavelength. The one with higher kinetic energy is:

- A) Electron
- B) Proton
- C) Both equal
- D) Cannot be determined

Q7. The magnetic field at the center of a toroid with N turns, radius r , and current I is:

- A) $\mu_0 NI/2\pi r$
- B) $\mu_0 NI/2r$
- C) $\mu_0 NI/r$
- D) $\mu_0 I/2\pi r$

- Q8. In an LCR circuit, the quality factor (Q) is:
- A) $R\sqrt{C/L}$
 - B) $(1/R)\sqrt{L/C}$
 - C) $\sqrt{LC}/R$
 - D) $R/\sqrt{LC}$
- Q9. A thin prism of angle A and refractive index n produces a deviation δ equal to:
- A) $(n - 1)A$
 - B) nA
 - C) $(n + 1)A$
 - D) A/n
- Q10. The binding energy of a satellite in orbit is:
- A) $-GMm/2r$
 - B) $GMm/2r$
 - C) $-GMm/r$
 - D) Zero
- Q11. The current in a photocell is measured at different intensities. The saturation current:
- A) Increases with intensity
 - B) Decreases with intensity
 - C) Is constant
 - D) Depends on frequency
- Q12. The Curie Temperature is the temperature above which:
- A) Ferromagnetic becomes paramagnetic
 - B) Paramagnetic becomes diamagnetic
 - C) Superconductor loses resistance
 - D) Liquid becomes gas
- Q13. In a transistor, the collector current is 9.8 mA and base current is 0.2 mA. The α parameter is:
- A) 0.98
 - B) 0.96
 - C) 0.95
 - D) 0.99
- Q14. The Poisson's ratio for an ideal material is:
- A) 0.5
 - B) 0.2
 - C) 0.7
 - D) 0.1
- Q15. A source of light is moving away from an observer. The observed frequency:
- A) Increases
 - B) Decreases
 - C) Remains constant
 - D) Becomes zero

- Q16. The root-mean-square speed of molecules at temperature T is:
- A) $\sqrt{3RT/M}$
 - B) $\sqrt{2RT/M}$
 - C) $\sqrt{8RT/\pi M}$
 - D) RT/M
- Q17. Which law relates the current in a loop to the change in magnetic flux?
- A) Faraday's Law
 - B) Ampere's Law
 - C) Gauss's Law
 - D) Biot-Savart Law
- Q18. The electric potential due to an electric dipole at a point on the equatorial line is:
- A) Zero
 - B) Maximum
 - C) Minimum
 - D) $1/4\pi\epsilon_0$
- Q19. The resolving power of a telescope is increased by:
- A) Increasing aperture diameter
 - B) Decreasing diameter
 - C) Increasing focal length
 - D) Decreasing wavelength
- Q20. The magnetic susceptibility of a superconductor is:
- A) -1
 - B) 0
 - C) 1
 - D) ∞
- Q21. In a series LCR circuit at resonance, the power factor is:
- A) 1
 - B) 0
 - C) 0.5
 - D) -1
- Q22. The work done in an isobaric expansion is:
- A) $P\Delta V$
 - B) $V\Delta P$
 - C) Zero
 - D) $nRT \ln(V_2/V_1)$
- Q23. The radius of gyration of a solid cylinder about its own axis is:
- A) $R/\sqrt{2}$
 - B) $R/2$
 - C) R
 - D) $2R/5$
- Q24. The force between two moving charges is:
- A) Both electric and magnetic

- B) Only electric
- C) Only magnetic
- D) Neither

Q25. X-rays are produced when:

- A) Fast electrons hit a metal target
- B) Protons hit a target
- C) Photons hit a target
- D) Radioactive decay occurs



SECTION 2 : CHEMISTRY

Q26. Which species has the same number of electrons as Ne ?

- A) Mg^{2+}
- B) Na
- C) F
- D) O

Q27. The bond order of N_2^+ ion is:

- A) 2.5
- B) 3.0
- C) 2.0
- D) 3.5

Q28. According to VSEPR theory, the shape of XeF_2 is:

- A) Linear
- B) Bent
- C) Trigonal planar
- D) Seesaw

Q29. The Schottky defect decreases:

- A) Density
- B) Mass
- C) Volume
- D) Hardness

Q30. Which is the correct order of increasing acid strength for oxyacids of chlorine?

- A) $HClO < HClO_2 < HClO_3 < HClO_4$
- B) $HClO_4 < HClO_3 < HClO_2 < HClO$
- C) $HClO_2 < HClO < HClO_4 < HClO_3$
- D) All equal

Q31. The rate law for a reaction



is

$$Rate = k[A]^1[B]^{0.5}.$$

The overall order is:

- A) 1.5
- B) 1
- C) 0.5
- D) 2

Q32. The adsorption of gases on solid surfaces is generally:

- A) Exothermic
- B) Endothermic
- C) Athermal
- D) Spontaneous only at high temperature

Q33. The IUPAC name of $[Co(NH_3)_5(CO_3)]Cl$ is:

- A) Pentaamminecarbonatocobalt(III) chloride
- B) Carbonatopentaamminecobalt(III) chloride
- C) Pentaamminecobalt(III) carbonate chloride
- D) None

Q34. Williamson ether synthesis involves:

- A) S_N2 mechanism
- B) S_N1 mechanism
- C) Electrophilic substitution
- D) Free radical reaction

Q35. The reaction



is:

- A) Hofmann Bromamide reaction
- B) Curtius reaction
- C) Schmidt reaction
- D) Gabriel phthalimide synthesis

Q36. Which of the following is a tertiary alcohol?

- A) 2-methylpropan-2-ol
- B) Propan-1-ol
- C) Butan-2-ol
- D) Ethanol

Q37. The Tollens' reagent is:

- A) Ammoniacal silver nitrate
- B) Cupric hydroxide
- C) Mercuric chloride
- D) Alkaline sodium nitroprusside

Q38. Which polymer is used for bullet-proof glass?

- A) Lexan (Polycarbonate)
- B) Nylon 6,6
- C) PVC
- D) Bakelite

Q39. The spin-only magnetic moment of Fe^{3+} ($Z = 26$) is:

- A) 5.92 BM
- B) 1.73 BM
- C) 2.82 BM
- D) 3.87 BM

Q40. Which isotope is used for cancer treatment?

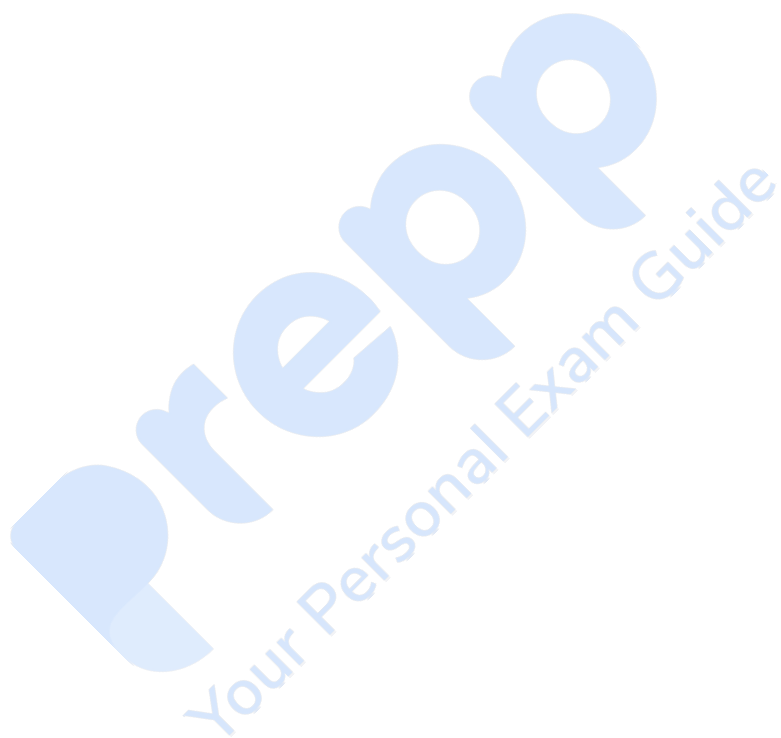
- A) $Co - 60$
- B) $C - 14$
- C) $U - 235$
- D) $I - 131$

- Q41. The pH of a buffer solution containing $0.1M$ CH_3COOH and $0.1M$ CH_3COONa ($pK_a = 4.74$) is:
A) 4.74
B) 5.74
C) 3.74
D) 7.0
- Q42. The oxidation state of Fe in $[Fe(CN)_6]^{4-}$ is:
A) +2
B) +3
C) +4
D) +1
- Q43. Which is the strongest base?
A) $CH_3CH_2NH_2$
B) NH_3
C) $C_6H_5NH_2$
D) $(C_6H_5)_2NH$
- Q44. The unit cell of $CsCl$ is:
A) BCC
B) FCC
C) Simple Cubic
D) HCP
- Q45. Kohlrausch's law deals with:
A) Molar conductivity at infinite dilution
B) Solubility product
C) Cell potential
D) Overpotential
- Q46. The catalyst used in the Contact Process for manufacture of H_2SO_4 is:
A) V_2O_5
B) Fe
C) Pt
D) Ni
- Q47. Ozone reacts with KI to produce:
A) I_2
B) I_2O_5
C) KIO_3
D) HI
- Q48. Which transition metal has the highest melting point?
A) Tungsten
B) Titanium
C) Iron
D) Copper
- Q49. The Hinsberg reagent is:
A) Benzenesulfonyl chloride

- B) Methyl chloride
- C) Benzoyl chloride
- D) Acetic anhydride

Q50. Which is the most abundant gas in the atmosphere?

- A) Nitrogen
- B) Oxygen
- C) Argon
- D) CO_2



SECTION 3 : BIOLOGY

Q51. Which organelle is known as the "Powerhouse"?

- A) Mitochondria
- B) Lysosome
- C) Golgi
- D) ER

Q52. The DNA replication is:

- A) Semi-conservative
- B) Conservative
- C) Dispersive
- D) None

Q53. Crossing over occurs in:

- A) Pachytene
- B) Leptotene
- C) Zygotene
- D) Diplotene

Q54. The fluid mosaic model was given by:

- A) Singer and Nicolson
- B) Watson and Crick
- C) Schleiden
- D) Hooke

Q55. Stomata opening is regulated by:

- A) K^+ ions
- B) Na^+ ions
- C) Ca^{2+} ions
- D) Cl^- ions

Q56. Glycolysis takes place in:

- A) Cytoplasm
- B) Mitochondria
- C) Nucleus
- D) ER

Q57. Bile salts emulsify:

- A) Fats
- B) Proteins
- C) Carbohydrates
- D) Vitamins

Q58. SA node is the:

- A) Pacemaker
- B) Pacemaker relay
- C) Brain of heart
- D) Valve

Q59. Neurotransmitters are stored in:

- A) Synaptic vesicles
- B) Mitochondria
- C) Lysosomes
- D) Nucleus

Q60. Antibodies are produced by:

- A) B-lymphocytes
- B) T-lymphocytes
- C) Macrophages
- D) Neutrophils

Q61. Gout is due to:

- A) Uric acid
- B) Oxalate
- C) Urea
- D) Phosphate

Q62. T-tubules are found in:

- A) Muscle cells
- B) Nerve cells
- C) Liver cells
- D) RBC

Q63. Epinephrine is secreted by:

- A) Adrenal medulla
- B) Thyroid
- C) Pancreas
- D) Pituitary

Q64. Calcitonin lowers:

- A) Blood Calcium
- B) Blood Sugar
- C) Blood Pressure
- D) Blood Volume

Q65. Cori cycle involves:

- A) Liver and muscle
- B) Heart and lung
- C) Kidney and bladder
- D) Brain and liver

Q66. Okazaki fragments are:

- A) Short DNA segments
- B) RNA segments
- C) Protein segments
- D) Lipids

Q67. Z-disk is a boundary of:

- A) Sarcomere
- B) Neuron

- C) Nucleus
 - D) Cell
- Q68. Placenta is a site of:
- A) Exchange of materials
 - B) Synthesis of hormones
 - C) Both A and B
 - D) Digestion
- Q69. Auxin promotes:
- A) Cell elongation
 - B) Fruit ripening
 - C) Leaf fall
 - D) Stomatal closure
- Q70. PCR uses:
- A) Taq polymerase
 - B) DNA polymerase I
 - C) Ligase
 - D) Helicase
- Q71. Restriction enzymes recognize:
- A) Palindromic sequences
 - B) Random sequences
 - C) Protein sites
 - D) Introns
- Q72. Rh-incompatibility leads to:
- A) Erythroblastosis fetalis
 - B) Hemophilia
 - C) Thalassemia
 - D) Anemia
- Q73. Hypothalamus controls:
- A) Homeostasis
 - B) Movement
 - C) Thinking
 - D) Vision
- Q74. Dystrophin is linked to:
- A) Muscular dystrophy
 - B) Diabetes
 - C) Cancer
 - D) HIV
- Q75. Amniotic fluid is protective for:
- A) Fetus
 - B) Ovary
 - C) Uterus
 - D) Vagina

SECTION 4 : ENGLISH

Q76. Synonym of “Abrogate”:

- A) Abolish
- B) Approve
- C) Enact
- D) Create

Q77. He died _____ cancer.

- A) of
- B) from
- C) by
- D) with

Q78. Choose the correct spelling:

- A) Privilage
- B) Priviledge
- C) Privilege
- D) Privelage

Q79. “Fast” in “Fast asleep” is:

- A) Adverb
- B) Adjective
- C) Noun
- D) Verb

Q80. Antonym of “Venerate”:

- A) Desecrate
- B) Honor
- C) Respect
- D) Admire

Q81. If I _____ you, I would go.

- A) were
- B) was
- C) am
- D) been

Q82. Passive voice of “He is reading a book” is:

- A) Book is being read
- B) Book is read
- C) Book was read
- D) Book is been read

Q83. Plural of “Datum”:

- A) Data
- B) Datums
- C) Dates
- D) Datia

- Q84. Antonym of “Plausible”:
A) Implausible
B) Possible
C) Likely
D) True
- Q85. Idiom “Barking up the wrong tree” means:
A) Mistaken
B) Angry
C) Hunting
D) Climbing
- Q86. “Lest” is followed by:
A) Should
B) Would
C) Could
D) Might
- Q87. Synonym of “Incorrigible”:
A) Unchangeable
B) Mutable
C) Fixable
D) Soft
- Q88. Choose the correct sentence:
A) The news are true
B) The news is true
C) News is truth
D) News are truth
- Q89. He is senior _____ me.
A) to
B) than
C) with
D) from
- Q90. Meaning of “Tabula rasa”:
A) Blank slate
B) New start
C) Dirty board
D) Clean desk

SECTION 5 : GENERAL KNOWLEDGE

- Q91. Largest continent:
A) Asia
B) Africa
C) North America
D) South America
- Q92. Father of the White Revolution:
A) Verghese Kurien
B) M.S. Swaminathan
C) Norman Borlaug
D) Homi Bhabha
- Q93. World Malaria Day is observed on:
A) April 25
B) May 25
C) March 25
D) June 25
- Q94. Parliament of Russia:
A) Duma
B) Diet
C) Knesset
D) Congress
- Q95. First Nobel Prize in Physics was awarded to:
A) Wilhelm Röntgen
B) Albert Einstein
C) Marie Curie
D) Niels Bohr
- Q96. Suez Canal connects:
A) Mediterranean Sea and Red Sea
B) Mediterranean Sea and Black Sea
C) Red Sea and Arabian Sea
D) Mediterranean Sea and Arabian Sea
- Q97. Indian Constitution was adopted on:
A) 26 November 1949
B) 26 January 1950
C) 15 August 1947
D) 26 January 1949
- Q98. Longest bone in the human body:
A) Femur
B) Tibia
C) Humerus
D) Skull

Q99. First woman Prime Minister in the world:

- A) Sirimavo Bandaranaike
- B) Indira Gandhi
- C) Margaret Thatcher
- D) Golda Meir

Q100. Founder of the Red Cross:

- A) Henry Dunant
- B) Florence Nightingale
- C) Mother Teresa
- D) Mahatma Gandhi



SOLUTIONS

Q1. Answer: A

Tangential acceleration is given by:

$$a_t = R\alpha$$

Q2. Answer: B

Force is:

$$F = -\frac{dU}{dx}$$

Given,

$$U = ax^2 - bx$$

$$F = -(2ax - b)$$

For equilibrium:

$$2ax - b = 0$$

$$x = \frac{b}{2a}$$

Q3. Answer: A

For a solid sphere rolling without slipping:

$$K = \frac{1}{2}mv^2 + \frac{1}{2}I\omega^2$$

Since

$$I = \frac{2}{5}mr^2, \quad \omega = \frac{v}{r}$$

$$K_{rot} = \frac{1}{5}mv^2$$

Thus,

$$K_{rot} : K_{total} = 1 : 2$$

Q4. Answer: A

For an open pipe:

$$f = \frac{v}{2L}$$

For a closed pipe:

$$f' = \frac{v}{4L}$$

Hence:

$$f' = \frac{f}{2}$$

Q5. Answer: C

For a reversible adiabatic process:

$$dQ = 0$$

Therefore:

$$\Delta S = 0$$

Q6. Answer: B

For equal de-Broglie wavelength:

$$\lambda = \frac{h}{p}$$

Thus both have equal momentum. Since:

$$K = \frac{p^2}{2m}$$

the proton has lower mass effect? Actually kinetic energy is inversely proportional to mass, therefore electron has higher kinetic energy.

Q7. Answer: A

Magnetic field inside a toroid:

$$B = \frac{\mu_0 NI}{2\pi r}$$

Q8. Answer: B

Quality factor:

$$Q = \frac{1}{R} \sqrt{\frac{L}{C}}$$

Q9. Answer: A

For a thin prism:

$$\delta = (n - 1)A$$

Q10. Answer: A

Total energy of a satellite:

$$E = -\frac{GMm}{2r}$$

Binding energy is:

$$\frac{GMm}{2r}$$

Thus the orbital energy is:

$$-\frac{GMm}{2r}$$

Q11. Answer: A

Saturation current is directly proportional to the intensity of incident light.

Q12. Answer: A

Above Curie temperature, ferromagnetic substances become paramagnetic.

Q13. Answer: A

$$I_E = I_C + I_B$$

$$I_E = 9.8 + 0.2 = 10 \text{ mA}$$

$$\alpha = \frac{I_C}{I_E} = \frac{9.8}{10} = 0.98$$

Q14. **Answer: A**

For an ideal incompressible material:

$$\mu = 0.5$$

where μ is Poisson's ratio.

Q15. **Answer: B**

According to Doppler effect, if source moves away:

$$f' < f$$

Observed frequency decreases.

Q16. **Answer: A**

RMS speed:

$$v_{rms} = \sqrt{\frac{3RT}{M}}$$

Q17. **Answer: A**

Faraday's law:

$$\varepsilon = -\frac{d\Phi}{dt}$$

relates induced current to changing magnetic flux.

Q18. **Answer: A**

Potential on the equatorial line of a dipole is zero due to symmetry.

Q19. **Answer: A**

Resolving power increases with aperture diameter.

Q20. **Answer: A**

For superconductors:

$$\chi = -1$$

due to perfect diamagnetism.

Q21. **Answer: A**

At resonance:

$$X_L = X_C$$

Thus:

$$\phi = 0$$

Power factor:

$$\cos \phi = 1$$

Q22. **Answer: A**

Work done:

$$W = P(V_2 - V_1) = P\Delta V$$

Q23. **Answer: A**

For a solid cylinder:

$$I = \frac{1}{2}MR^2$$

Radius of gyration:

$$k = \sqrt{\frac{I}{M}} = \frac{R}{\sqrt{2}}$$

Q24. **Answer: A**

Moving charges produce both electric and magnetic fields.

Q25. **Answer: A**

X-rays are produced when high-speed electrons strike a heavy metal target.

Q26. **Answer: A**



contains 10 electrons, same as Neon.

Q27. **Answer: A**

For



bond order = 3. Removing one electron gives:

$$BO = 2.5$$

Q28. **Answer: A**

In



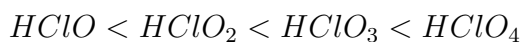
three lone pairs occupy equatorial positions giving linear geometry.

Q29. **Answer: A**

Schottky defect decreases density because ions are missing from lattice sites.

Q30. **Answer: A**

Acid strength increases with oxidation state of chlorine:



Q31. **Answer: A**

Overall order:

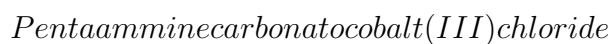
$$1 + 0.5 = 1.5$$

Q32. **Answer: A**

Adsorption releases energy and is therefore exothermic.

Q33. **Answer: A**

Correct IUPAC name:



Q34. **Answer: A**

Williamson synthesis proceeds through:



mechanism.

Q35. **Answer: A**

The reaction is Hofmann bromamide degradation, converting amides into amines with one carbon less.

Q36. **Answer: A**

2-methylpropan-2-ol is a tertiary alcohol because the OH-bearing carbon is attached to three carbon atoms.

Q37. **Answer: A**

Tollens' reagent is ammoniacal silver nitrate solution.

Q38. **Answer: A**

Polycarbonate (Lexan) is used in bullet-proof glass.

Q39. **Answer: A**

$$Fe^{3+} = 3d^5$$

$$\mu = \sqrt{n(n+2)} = \sqrt{35} = 5.92 \text{ BM}$$

Q40. **Answer: A**



is widely used in cancer radiotherapy.

Q41. **Answer: A**

Henderson equation:

$$pH = pK_a + \log \frac{\text{salt}}{\text{acid}}$$

$$pH = 4.74 + \log 1 = 4.74$$

Q42. **Answer: A**

Let oxidation state be x :

$$x + 6(-1) = -4$$

$$x = +2$$

Q43. **Answer: A**

Aliphatic amines are stronger bases than ammonia and aromatic amines.

Q44. **Answer: A**

CsCl crystal has body-centered arrangement.

Q45. **Answer: A**

Kohlrausch's law deals with molar conductivity at infinite dilution.

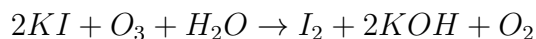
Q46. **Answer: A**

Contact process catalyst:



Q47. **Answer: A**

Ozone oxidizes iodide ions:



Q48. **Answer: A**

Tungsten possesses the highest melting point among transition metals.

Q49. **Answer: A**

Hinsberg reagent is benzenesulfonyl chloride.

Q50. **Answer: A**

Nitrogen constitutes about:

78%

of Earth's atmosphere.

Q51. **Answer: A**

Mitochondria generate ATP through cellular respiration and are therefore called the powerhouse of the cell.

Q52. **Answer: A**

DNA replication follows the semi-conservative model, where each daughter DNA molecule contains one parental strand and one newly synthesized strand.

Q53. **Answer: A**

Crossing over occurs during the pachytene stage of Prophase-I of meiosis.

Q54. **Answer: A**

The Fluid Mosaic Model of the plasma membrane was proposed by Singer and Nicolson in 1972.

Q55. **Answer: A**

Accumulation of potassium ions (K^+) in guard cells causes water entry and stomatal opening.

Q56. **Answer: A**

Glycolysis occurs in the cytoplasm of the cell.

Q57. **Answer: A**

Bile salts emulsify fats into smaller droplets, facilitating digestion by lipase.

Q58. **Answer: A**

The sinoatrial (SA) node initiates electrical impulses and functions as the pacemaker of the heart.

Q59. **Answer: A**

Neurotransmitters are stored in synaptic vesicles located at the axon terminals.

- Q60. **Answer: A**
B-lymphocytes differentiate into plasma cells that produce antibodies.
- Q61. **Answer: A**
Gout is caused by deposition of uric acid crystals in joints.
- Q62. **Answer: A**
T-tubules are invaginations of the sarcolemma found in muscle fibers.
- Q63. **Answer: A**
Epinephrine (adrenaline) is secreted by the adrenal medulla.
- Q64. **Answer: A**
Calcitonin decreases blood calcium concentration by promoting calcium deposition in bones.
- Q65. **Answer: A**
The Cori cycle transfers lactate from muscles to the liver where it is converted into glucose.
- Q66. **Answer: A**
Okazaki fragments are short DNA segments synthesized on the lagging strand during DNA replication.
- Q67. **Answer: A**
The Z-disc forms the boundary of a sarcomere in skeletal muscle.
- Q68. **Answer: C**
The placenta functions in exchange of nutrients and gases and also secretes hormones such as hCG and progesterone.
- Q69. **Answer: A**
Auxin promotes cell elongation in growing plant tissues.
- Q70. **Answer: A**
PCR uses heat-stable Taq polymerase obtained from *Thermus aquaticus*.
- Q71. **Answer: A**
Restriction enzymes recognize specific palindromic DNA sequences.
- Q72. **Answer: A**
Rh incompatibility can result in erythroblastosis fetalis in newborns.
- Q73. **Answer: A**
The hypothalamus regulates homeostasis including temperature, hunger, thirst, and endocrine functions.
- Q74. **Answer: A**
Dystrophin deficiency causes Duchenne muscular dystrophy.
- Q75. **Answer: A**
Amniotic fluid protects the developing fetus from mechanical injury and temperature fluctuations.

Q76. **Answer: A**

“Abrogate” means to abolish or repeal formally.

Q77. **Answer: A**

The correct expression is:

He died of cancer.

Q78. **Answer: C**

“Privilege” is the correct spelling.

Q79. **Answer: A**

In the phrase “fast asleep,” the word “fast” functions as an adverb modifying “asleep.”

Q80. **Answer: A**

“Venerate” means to respect deeply; its antonym is “desecrate.”

Q81. **Answer: A**

The subjunctive mood requires:

If I were you

Q82. **Answer: A**

Passive form:

A book is being read.

Q83. **Answer: A**

The plural of datum is:

Data

Q84. **Answer: A**

“Implausible” means not believable and is the opposite of plausible.

Q85. **Answer: A**

The idiom means making a wrong assumption or pursuing the wrong course.

Q86. **Answer: A**

“Lest” is traditionally followed by “should.”

Q87. **Answer: A**

“Incorrigible” means incapable of being corrected or reformed.

Q88. **Answer: B**

“News” is treated as a singular noun:

The news is true.

Q89. **Answer: A**

The correct expression is:

He is senior to me.

Q90. **Answer: A**

“Tabula rasa” means a blank slate or an empty mind before experience.

Q91. **Answer: A**

Asia is the largest continent in the world.

Q92. **Answer: A**

Dr. Verghese Kurien is known as the Father of the White Revolution.

Q93. **Answer: A**

World Malaria Day is observed on April 25 every year.

Q94. **Answer: A**

The Parliament of Russia is called the Duma.

Q95. **Answer: A**

Wilhelm Conrad Röntgen received the first Nobel Prize in Physics in 1901.

Q96. **Answer: A**

The Suez Canal connects the Mediterranean Sea and the Red Sea.

Q97. **Answer: A**

The Constitution of India was adopted on:

26 November 1949

Q98. **Answer: A**

The femur is the longest and strongest bone in the human body.

Q99. **Answer: A**

Sirimavo Bandaranaike of Sri Lanka became the world's first woman Prime Minister.

Q100. **Answer: A**

Henry Dunant founded the International Red Cross Movement.