

PGIMER B.SC PARAMEDICAL SAMPLE PAPER 09

A) Time Allowed: 1 Hour 30 Minutes.

B) Maximum Marks: 100

C) Total Questions: 100

General Instructions:

- This paper consists of five sections: Mathematics (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 plane with velocity

$$\vec{v} = a\hat{i} + bt\hat{j}.$$

The path of the particle is:

- A) Parabola
- B) Straight line
- C) Circle
- D) Ellipse

Q2. The torque $\vec{\tau}$ on a particle about the origin is:

- A) $\vec{r} \times \vec{F}$
- B) $\vec{F} \times \vec{r}$
- C) $\vec{r} \cdot \vec{F}$
- D) rF

Q3. For a body rolling without slipping on a horizontal plane, the work done by friction is:

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

Q4. The gravitational potential at a point r due to a ring of mass M and radius a on its axis is:

A)

$$-\frac{GM}{\sqrt{r^2 + a^2}}$$

B)

$$-\frac{GM}{r}$$

C)

$$-\frac{GM}{a}$$

D) Zero

Q5. A gas undergoes a process

$$PV^2 = \text{constant}.$$

The molar heat capacity is:

A)

$$C_v + \frac{R}{1-2}$$

B)

$$C_v + R$$

C)

$$C_v$$

D) ∞

Q6. The fringes in Young's double-slit experiment shift when a glass plate is introduced. The shift is:

A)

$$\frac{(n-1)tD}{d}$$

B)

$$\frac{(n-1)td}{D}$$

C)

$$\frac{ntD}{d}$$

D)

$$\frac{n}{t}$$

Q7. The intensity of light in a single-slit diffraction pattern is maximum at:

A) Center

B) Edge

C) First minimum

D) Second minimum

Q8. Magnetic flux

$$\phi = t^2 + 2t.$$

The induced EMF at

$$t = 2s$$

is:

A) 6 V

B) 4 V

C) 2 V

D) 8 V

Q9. A charge q is placed at the center of a cube. The flux through one face is:

A)

$$\frac{q}{6\epsilon_0}$$

B)

$$\frac{q}{\epsilon_0}$$

C)

$$\frac{q}{3\epsilon_0}$$

D) Zero

Q10. The half-life of a radioactive sample is 10 s. The probability of decay in 10 s is:

A) 0.5

B) 0.25

C) 0.75

D) 1

Q11. The logic gate with output 1 only when all inputs are 0 is:

- A) NOR
- B) NAND
- C) AND
- D) OR

Q12. The de-Broglie wavelength of a particle of mass m at temperature T is:

A)

$$\frac{h}{\sqrt{3mkT}}$$

B)

$$\frac{h}{\sqrt{2mkT}}$$

C)

$$\frac{h}{\sqrt{mkT}}$$

D)

$$\frac{h}{kT}$$

Q13. In a transistor,

$$I_c = 10mA, \quad I_b = 0.1mA.$$

The current gain β is:

- A) 100
- B) 10
- C) 1000
- D) 1

Q14. The Curie constant C in

$$\chi = \frac{C}{T - T_c}$$

is associated with:

- A) Ferromagnetism
- B) Diamagnetism
- C) Paramagnetism
- D) Superconductivity

Q15. The Young's modulus

$$Y = \frac{\text{Stress}}{\text{Strain}}.$$

If L is doubled and A is halved, Y becomes:

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

Q16. The energy of an electromagnetic wave is distributed equally between:

- A) Electric and magnetic fields
- B) Potential and kinetic energy

- C) Frequency and amplitude
- D) None of these

Q17. The velocity of light in a medium with

$$\mu_r = 1, \quad \epsilon_r = 4$$

is:

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

Q18. The potential at the center of a charged conducting sphere is:

A)

$$\frac{kQ}{R}$$

B) 0

C)

$$\frac{kQ}{r}$$

D)

$$\frac{2kQ}{R}$$

Q19. A simple pendulum has period T . If the length increases by 1%, the period increases by:

- A) 0.5%
- B) 1%
- C) 2%
- D) 0.25%

Q20. The binding energy per nucleon is maximum for:

- A) Iron (${}^{56}_{26}\text{Fe}$)
- B) Uranium
- C) Helium
- D) Hydrogen

Q21. The power factor of a circuit with

$$R = 10, \quad X_L = 10$$

is:

A)

$$\frac{1}{\sqrt{2}}$$

B) 1

C) 0

D) 0.5

Q22. The intensity of sound

$$I = 10^{-12} \text{ W/m}^2$$

corresponds to:

- A) Threshold of hearing
- B) Threshold of pain
- C) Normal speech
- D) Silence

Q23. The potential energy U of a dipole is minimum at:

- A) $\theta = 0^\circ$
- B) $\theta = 90^\circ$
- C) $\theta = 180^\circ$
- D) $\theta = 45^\circ$

Q24. Lenz's Law is a consequence of:

- A) Conservation of energy
- B) Conservation of charge
- C) Conservation of momentum
- D) Newton's law

Q25. The rest mass of a photon is:

- A) Zero
- B)
- C) Infinite
- D) m_e

$$\frac{h}{\lambda c}$$

SECTION 2 : CHEMISTRY

Q26. The de-Broglie wavelength of an electron moving at

$$10^6 \text{ m/s}$$

is:

A)

$$7.27 \times 10^{-10} \text{ m}$$

B)

$$10^{-9} \text{ m}$$

C)

$$10^{-10} \text{ m}$$

D)

$$7 \times 10^{-11} \text{ m}$$

Q27. The bond order of CO is:

A) 3

B) 2

C) 2.5

D) 1

Q28. The geometry of



is:

A) Square planar

B) Tetrahedral

C) Octahedral

D) Trigonal bipyramidal

Q29. Which defect causes a decrease in crystal density?

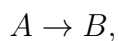
A) Schottky defect

B) Frenkel defect

C) Interstitial defect

D) Metal excess defect

Q30. For the reaction



the rate doubles when concentration of A is quadrupled. The order is:

A) 0.5

B) 1

C) 2

D) 0

Q31. The osmotic pressure of a 0.1 M glucose solution at 300 K is:

A) 2.46 atm

B) 0.1 atm

C) 1 atm

D) 0.082 atm

Q32. The conjugate base of



is:

A)



B)



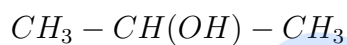
C)



D)



Q33. The IUPAC name of



is:

A) Propan-2-ol

B) Propan-1-ol

C) Isopropanol

D) Acetone

Q34. The product of



is:

A) Ethene

B) Ethanol

C) Ethane

D) Ethyl ether

Q35. Fehling's test is positive for:

A) Aliphatic aldehydes

B) Ketones

C) Aromatic aldehydes

D) Alcohols

Q36. Which polymer is biodegradable?

A) PHBV

B) PVC

C) Nylon 6,6

D) Bakelite

Q37. The spin-only magnetic moment of



is:

A) 4.90 BM

B) 5.92 BM

C) 1.73 BM

D) 0

Q38. Which complex is paramagnetic?

A)



B)



C)



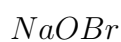
D)



Q39. The reaction of



with



gives:

A)



B)



C)

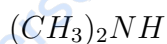


D)

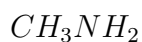


Q40. The most basic amine is:

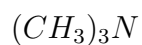
A)



B)



C)



D)



Q41. The bond angle in water is influenced by:

A) Lone pair repulsion

B) Hybridization

C) Electronegativity

D) All of these

Q42. The lanthanide commonly showing a +2 oxidation state is:

A) Europium

B) Cerium

C) Gadolinium

D) Lutetium

Q43. The catalyst used in the Contact Process is:

A)



B) Fe

C) Pt

D) Ni

Q44. The strongest acid among the following is:

A) HI

B) HCl

C) HBr

D) HF

Q45. The number of structural isomers of



is:

A) 3

B) 2

C) 4

D) 5

Q46. The Diels–Alder reaction requires:

A) Diene and dienophile

B) Acid catalyst

C) Light

D) Base

Q47. Kohlrausch's law is related to:

A) Molar conductivity

B) Reaction rate

C) pH

D) Solubility

Q48. Gold sol is a:

A) Lyophobic colloid

B) Lyophilic colloid

C) True solution

D) Suspension

Q49. Which of the following is a nucleophile?

A)



B)



C)



D)



Q50. The gas evolved when magnesium reacts with hot water is:

A)



B)



C)



D)



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SECTION 3 : MATHEMATICS

Q51. The derivative of

$$\ln(\sin x)$$

is:

- A) $\cot x$
- B) $\tan x$
- C) $\csc x$
- D) $\sec x$

Q52. The value of

$$\int_0^\pi \sin x \, dx$$

is:

- A) 2
- B) 1
- C) 0
- D) -1

Q53. The slope of

$$x^2 + y^2 = 25$$

at $(3, 4)$ is:

- A) $-\frac{3}{4}$
- B) $\frac{3}{4}$
- C) $\frac{4}{3}$
- D) $-\frac{4}{3}$

Q54. The sum of the infinite GP

$$1, \frac{1}{4}, \frac{1}{16}, \dots$$

is:

- A) $\frac{4}{3}$
- B) 1
- C) 0.5
- D) 2

Q55. The roots of

$$x^3 - 1 = 0$$

include:

- A) $1, \omega, \omega^2$
- B) $1, -1, 0$
- C) $1, 1, 1$
- D) $0, 1, -1$

Q56. The number of distinct arrangements of the word **MATHEMATICS** is:

A)

$$\frac{11!}{2!2!2!}$$

B) $11!$

C)

$$\frac{11!}{2!}$$

D)

$$\frac{11!}{3!}$$

Q57. If A is a 2×2 matrix with

$$\det(A) = 2,$$

then

$$\det(2A)$$

is:

A) 8

B) 4

C) 2

D) 16

Q58. The angle between

$$\vec{i} + \vec{j}$$

and

$$\vec{i} - \vec{j}$$

is:

A) 90° B) 0° C) 45° D) 180° Q59. For mutually exclusive events A and B ,

$$P(A \cup B)$$

is:

A) $P(A) + P(B)$ B) $P(A)P(B)$ C) $P(A)$

D) 0

Q60.

$$\cos(2\theta)$$

in terms of $\tan \theta$ is:

A)

$$\frac{1 - \tan^2 \theta}{1 + \tan^2 \theta}$$

B)

$$1 - \tan^2 \theta$$

C)

$$1 + \tan^2 \theta$$

D)

$$2 \tan \theta$$

Q61. The distance between $(0, 0)$ and $(-3, -4)$ is:

A) 5

B) 3

C) 4

D) 7

Q62. The rank of

$$\begin{pmatrix} 1 & 2 & 2 & 4 \end{pmatrix}$$

is:

A) 1

B) 2

C) 0

D) 4

Q63.

$$\log_x 1$$

is:

A) 0

B) 1

C) x D) ∞

Q64. The value of

$$i^5$$

is:

A) i B) -1

C) 1

D) $-i$

Q65. The normal to

$$y = x^2$$

at $x = 0$ is:A) $x = 0$ B) $y = 0$ C) $y = x$ D) $y = 1$

Q66.

$$\int_1^e \frac{1}{x} dx$$

is:

- A) 1
- B) 0
- C) e
- D) $1/e$

Q67. The ellipse

$$\frac{x^2}{16} + \frac{y^2}{9} = 1$$

has eccentricity:

- A) $\frac{\sqrt{7}}{4}$
- B) $\frac{3}{4}$
- C) $\frac{4}{3}$
- D) 1

Q68. The number of subsets of the set

$$\{1, 2, 3, 4\}$$

is:

- A) 16
- B) 8
- C) 4
- D) 32

Q69. The identity

$$\sin^2 \theta + \cos^2 \theta = 1$$

is valid for:

- A) All θ
- B) $\theta = 0^\circ$
- C) $\theta = 90^\circ$
- D) None

Q70. The standard deviation of

$$\{2, 2, 2, 2\}$$

is:

- A) 0
- B) 2
- C) 4
- D) 1

Q71. The derivative of

$$e^{2x}$$

is:

A)

$$2e^{2x}$$

B)

$$e^{2x}$$

C)

$$xe^{2x}$$

D)

$$4e^{2x}$$

Q72. The points

$$(1, 2), (3, 4), (5, 6)$$

are:

A) Collinear

B) Forming a triangle

C) Forming a square

D) Not in a plane

Q73. The value of

$$\int_0^{\infty} e^{-2x} dx$$

is:

A) 0.5

B) 1

C) 2

D) 0

Q74. The determinant of

$$\text{diag}(a, b, c)$$

is:

A) abc

B) $a + b + c$

C) a

D) 1

Q75. The intersection point of

$$x + y = 2$$

and

$$x - y = 0$$

is:

A) (1, 1)

B) (0, 0)

C) (2, 2)

D) (1, 0)

SECTION 4 : ENGLISH

- Q76. Synonym of “Ephemeral”:
 A) Evanescent
 B) Lasting
 C) Eternal
 D) Sturdy
- Q77. He is guilty _____ murder.
 A) of
 B) for
 C) at
 D) in
- Q78. Choose the correct spelling:
 A) Maintenance
 B) Maintainance
 C) Maintenence
 D) Mantainance
- Q79. “Light” in “Light the lamp” is:
 A) Verb
 B) Noun
 C) Adjective
 D) Adverb
- Q80. Antonym of “Fastidious”:
 A) Careless
 B) Precise
 C) Picky
 D) Neat
- Q81. If I _____ you, I would win.
 A) were
 B) was
 C) am
 D) had been
- Q82. Passive voice of “The cat killed the rat” is:
 A) Rat was killed.
 B) Rat is killed.
 C) Rat has been killed.
 D) Rat kills.
- Q83. The plural of “Focus” is:
 A) Foci
 B) Focuses
 C) Focae
 D) Focus

- Q84. Antonym of “Lithe”:
 A) Clumsy
 B) Flexible
 C) Agile
 D) Supple
- Q85. The idiom “By hook or by crook” means:
 A) By any means
 B) Honestly
 C) Legally
 D) Easily
- Q86. “No sooner” is paired with:
 A) Than
 B) When
 C) Then
 D) Before
- Q87. Synonym of “Acrimony”:
 A) Bitterness
 B) Sweetness
 C) Love
 D) Peace
- Q88. Choose the correct sentence:
 A) Neither he nor I am going.
 B) Neither he nor I is going.
 C) Neither he nor I are going.
 D) Neither he nor I were going.
- Q89. Prefer tea _____ coffee.
 A) to
 B) than
 C) over
 D) with
- Q90. Meaning of “Sine qua non”:
 A) Essential condition
 B) Optional
 C) Extra
 D) None

SECTION 5 : GENERAL KNOWLEDGE

- Q91. Capital of Hungary:
A) Budapest
B) Prague
C) Vienna
D) Warsaw
- Q92. Blue Revolution is associated with:
A) Fish production
B) Milk production
C) Oil production
D) Water conservation
- Q93. World Wetlands Day is observed on:
A) February 2
B) March 2
C) April 2
D) May 2
- Q94. The Parliament of Israel is called:
A) Knesset
B) Diet
C) Duma
D) Congress
- Q95. The first Nobel Prize in Economics was awarded to:
A) Ragnar Frisch and Jan Tinbergen
B) Albert Einstein
C) Marie Curie
D) Niels Bohr
- Q96. The Suez Canal connects the:
A) Mediterranean Sea and Red Sea
B) Mediterranean Sea and Black Sea
C) Atlantic Ocean and Pacific Ocean
D) Atlantic Ocean and Indian Ocean
- Q97. The 42nd Constitutional Amendment Act is known as the:
A) Mini Constitution
B) Big Constitution
C) Small Constitution
D) Final Constitution
- Q98. The largest gland in the human body is:
A) Liver
B) Thyroid
C) Pancreas
D) Adrenal gland

Q99. The first woman in space was:

- A) Valentina Tereshkova
- B) Kalpana Chawla
- C) Sunita Williams
- D) Anousheh Ansari

Q100. The Red Cross received the Nobel Peace Prize in:

- A) 1917, 1944 and 1963
- B) 1900 only
- C) 1950 only
- D) Never



SOLUTIONS

Q1. Answer: A

Using chain rule:

$$\frac{d}{dx} \ln(\sin x) = \frac{1}{\sin x} \cdot \cos x = \cot x$$

Q2. Answer: A

$$\begin{aligned} \int_0^\pi \sin x \, dx &= [-\cos x]_0^\pi \\ &= (-(-1)) - (-1) = 2 \end{aligned}$$

Q3. Answer: A

Differentiate:

$$x^2 + y^2 = 25$$

$$2x + 2y \frac{dy}{dx} = 0$$

$$\frac{dy}{dx} = -\frac{x}{y}$$

At (3, 4):

$$\frac{dy}{dx} = -\frac{3}{4}$$

Q4. Answer: A

For GP:

$$\begin{aligned} S &= \frac{a}{1-r} \\ &= \frac{1}{1-\frac{1}{4}} = \frac{4}{3} \end{aligned}$$

Q5. Answer: A

$$x^3 - 1 = (x - 1)(x^2 + x + 1)$$

Roots:

$$1, \omega, \omega^2$$

Q6. Answer: A

MATHEMATICS has 11 letters with:

$$M = 2, A = 2, T = 2$$

Hence:

$$\frac{11!}{2!2!2!}$$

Q7. Answer: A

For a 2×2 matrix:

$$\det(kA) = k^2 \det(A)$$

$$\det(2A) = 2^2(2) = 8$$

Q8. **Answer: A**

$$(\vec{i} + \vec{j}) \cdot (\vec{i} - \vec{j}) = 1 - 1 = 0$$

Therefore vectors are perpendicular.

$$\theta = 90^\circ$$

Q9. **Answer: A**

For mutually exclusive events:

$$P(A \cup B) = P(A) + P(B)$$

Q10. **Answer: A**

Identity:

$$\cos 2\theta = \frac{1 - \tan^2 \theta}{1 + \tan^2 \theta}$$

Q11. **Answer: A**

Distance:

$$\begin{aligned} &\sqrt{(-3)^2 + (-4)^2} \\ &= \sqrt{25} = 5 \end{aligned}$$

Q12. **Answer: A**

Second row is twice the first row. Hence only one independent row.

$$Rank = 1$$

Q13. **Answer: A**

$$\log_x 1 = 0$$

for all valid bases.

Q14. **Answer: A**

$$i^5 = i^4 \cdot i = 1 \cdot i = i$$

Q15. **Answer: A**

$$y = x^2$$

$$\frac{dy}{dx} = 2x$$

At $x = 0$:

$$m_t = 0$$

Tangent is horizontal, so normal is:

$$x = 0$$

Q16. **Answer: A**

$$\begin{aligned}\int_1^e \frac{1}{x} dx &= [\ln x]_1^e \\ &= 1 - 0 = 1\end{aligned}$$

Q17. **Answer: A**

For ellipse:

$$\begin{aligned}a &= 4, \quad b = 3 \\ e &= \sqrt{1 - \frac{b^2}{a^2}} \\ &= \sqrt{1 - \frac{9}{16}} \\ &= \frac{\sqrt{7}}{4}\end{aligned}$$

Q18. **Answer: A**

Number of subsets:

$$2^n = 2^4 = 16$$

Q19. **Answer: A**

$$\sin^2 \theta + \cos^2 \theta = 1$$

is true for every value of θ .

Q20. **Answer: A**

All observations are equal. Hence variance and standard deviation are:

$$0$$

Q21. **Answer: A**

$$\frac{d}{dx}(e^{2x}) = 2e^{2x}$$

Q22. **Answer: A**

Slope between first two points:

$$\frac{4 - 2}{3 - 1} = 1$$

Slope between last two points:

$$\frac{6 - 4}{5 - 3} = 1$$

Same slope, hence collinear.

Q23. **Answer: A**

$$\begin{aligned}\int_0^\infty e^{-2x} dx &= \left[-\frac{1}{2} e^{-2x} \right]_0^\infty \\ &= \frac{1}{2}\end{aligned}$$

Q24. **Answer: A**

Determinant of diagonal matrix:

$$abc$$

Q25. **Answer: A**

Solving:

$$x + y = 2$$

$$x - y = 0$$

Adding:

$$2x = 2$$

$$x = 1, \quad y = 1$$

Q26. **Answer: A**

Ephemeral means short-lived. Evanescent has the same meaning.

Q27. **Answer: A**

Correct usage:

guilty of murder

Q28. **Answer: A**

Correct spelling:

Maintenance

Q29. **Answer: A**

In "Light the lamp", light is an action word. Hence it is a verb.

Q30. **Answer: A**

Fastidious means very careful or picky. Its antonym is careless.

Q31. **Answer: A**

Correct subjunctive form:

If I were you

Q32. **Answer: A**

Passive form:

He was killed.

Q33. **Answer: A**

Plural:

Focus → Foci

Q34. **Answer: A**

Lithe means flexible and graceful. Its antonym is clumsy.

Q35. **Answer: A**

The idiom means:

By any means possible

Q36. **Answer: A**

Standard construction:

No sooner...than

Q37. **Answer: A**

Acrimony means bitterness.

Q38. **Answer: A**

When subjects are joined by "neither...nor", the verb agrees with the nearer subject.

Neither hen nor I am going.

Q39. **Answer: A**

Correct expression:

Prefer tea to coffee

Q40. **Answer: A**

"Sine qua non" means an essential condition.

Q41. **Answer: A**

Budapest is the capital of Hungary.

Q42. **Answer: A**

Blue Revolution is associated with fish production.

Q43. **Answer: A**

World Wetlands Day:

2 February

Q44. **Answer: A**

The Parliament of Israel is called the Knesset.

Q45. **Answer: A**

The first Nobel Prize in Economics was awarded to Ragnar Frisch and Jan Tinbergen.

Q46. **Answer: A**

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

Q47. **Answer: A**

The 42nd Constitutional Amendment is called the Mini Constitution.

Q48. **Answer: A**

The liver is the largest gland in the human body.

Q49. **Answer: A**

Valentina Tereshkova became the first woman in space in 1963.

Q50. **Answer: A**

The International Red Cross received the Nobel Peace Prize in:

1917, 1944, 1963

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 in which 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 was proposed by Singer and Nicolson.

Q55. Answer: A

Opening of stomata is regulated by accumulation of potassium ions (K^+) in guard cells.

Q56. Answer: A

Glycolysis occurs in the cytoplasm of the cell.

Q57. Answer: A

Bile salts emulsify fats into smaller droplets to facilitate digestion.

Q58. Answer: A

The SA node acts as the natural pacemaker of the heart.

Q59. Answer: A

Neurotransmitters are stored in synaptic vesicles at the nerve terminals.

Q60. Answer: A

Antibodies are produced by B-lymphocytes which differentiate into plasma cells.

Q61. Answer: A

Gout results from deposition of uric acid crystals in joints.

Q62. Answer: A

T-tubules are specialized structures found in muscle cells.

Q63. Answer: A

Epinephrine (adrenaline) is secreted by the adrenal medulla.

Q64. Answer: A

Calcitonin lowers blood calcium concentration.

Q65. Answer: A

The Cori cycle involves metabolic interaction between muscle and liver.

Q66. Answer: A

Okazaki fragments are short DNA segments synthesized on the lagging strand.

Q67. Answer: A

The Z-disc forms the boundary of a sarcomere.

Q68. Answer: C

The placenta functions in exchange of nutrients and gases and also produces hormones.

Q69. Answer: A

Auxin promotes cell elongation in plants.

Q70. **Answer: A**

PCR utilizes Taq polymerase, a heat-stable enzyme.

Q71. **Answer: A**

Restriction enzymes recognize specific palindromic DNA sequences.

Q72. **Answer: A**

Rh incompatibility may lead to erythroblastosis fetalis.

Q73. **Answer: A**

The hypothalamus maintains homeostasis and regulates body temperature, hunger and thirst.

Q74. **Answer: A**

Dystrophin deficiency causes Duchenne muscular dystrophy.

Q75. **Answer: A**

Amniotic fluid protects the fetus from mechanical injury and shock.

Q76. **Answer: A**

Ephemeral means short-lived or lasting for a very short time. Evanescent is its synonym.

Q77. **Answer: A**

The correct phrase is:

guilty of murder

Q78. **Answer: A**

The correct spelling is:

Maintenance

Q79. **Answer: A**

In the sentence "Light the lamp", the word "light" functions as a verb.

Q80. **Answer: A**

Fastidious means excessively careful or picky. Its antonym is careless.

Q81. **Answer: A**

Correct subjunctive form:

If I were you

Q82. **Answer: A**

Passive voice:

That was killed.

Q83. **Answer: A**

Plural:

Focus → Foci

Q84. **Answer: A**

Lithe means flexible and graceful. Its opposite is clumsy.

Q85. **Answer: A**

The idiom means:

By any means possible

Q86. **Answer: A**

Standard construction:

No sooner...than

Q87. **Answer: A**

Acrimony means bitterness or harshness.

Q88. **Answer: A**

The verb agrees with the subject nearest to it:

Neither he nor I am going.

Q89. **Answer: A**

Correct usage:

Prefer tea to coffee

Q90. **Answer: A**

"Sine qua non" means an essential condition.

Q91. **Answer: A**

Budapest is the capital city of Hungary.

Q92. **Answer: A**

Blue Revolution is associated with fish production and fisheries development.

Q93. **Answer: A**

World Wetlands Day is observed on:

2 February

Q94. **Answer: A**

The Parliament of Israel is known as the Knesset.

Q95. **Answer: A**

The first Nobel Prize in Economics was awarded to Ragnar Frisch and Jan Tinbergen in 1969.

Q96. **Answer: A**

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

Q97. **Answer: A**

The 42nd Constitutional Amendment Act is popularly known as the Mini Constitution.

Q98. **Answer: A**

The liver is the largest gland in the human body.

Q99. **Answer: A**

Valentina Tereshkova became the first woman in space in 1963.

Q100. **Answer: A**

The International Red Cross received the Nobel Peace Prize in:

1917, 1944, 1963

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