

PGIMER B.SC PARAMEDICAL SAMPLE PAPER 07

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's velocity vector is

$$\vec{v} = (3t^2)\hat{i} + (4t)\hat{j}.$$

The angle between acceleration and velocity at $t = 1$ s is:

- A) $\cos^{-1}\left(\frac{10}{13\sqrt{5}}\right)$
- B) 0°
- C) 90°
- D) 45°

Q2. A block of mass m slides down an incline of angle θ with coefficient of friction μ . The acceleration is:

- A) $g(\sin \theta - \mu \cos \theta)$
- B) $g(\sin \theta + \mu \cos \theta)$
- C) $g\mu \cos \theta$
- D) $g \sin \theta$

Q3. The radius of gyration of a hollow sphere of mass M and radius R about a tangent is:

- A) $\sqrt{\frac{7}{3}}R$
- B) $\sqrt{\frac{5}{3}}R$
- C) R
- D) $\sqrt{\frac{2}{3}}R$

Q4. A particle in SHM has amplitude A . At what displacement is the kinetic energy equal to potential energy?

- A) $A/\sqrt{2}$
- B) $A/2$
- C) $A/\sqrt{3}$
- D) A

Q5. For a gas,

$$\gamma = 1.4.$$

The ratio of adiabatic bulk modulus to isothermal bulk modulus is:

- A) 1.4
- B) 0.7
- C) 1.0
- D) 1.96

Q6. The work done in blowing a soap bubble of radius R to $2R$ is proportional to:

- A) R^2
- B) R^3
- C) R
- D) $1/R^2$

Q7. The magnetic field at the center of a circular loop of radius R carrying current I is B_0 .

At a point on the axis at distance R :

- A) $B_0/2\sqrt{2}$
- B) $B_0/2$

- C) $B_0/\sqrt{2}$
D) B_0
- Q8. The displacement current density is given by:
A) $\epsilon_0 \left(\frac{\partial E}{\partial t} \right)$
B) $\epsilon_0 \left(\frac{\partial B}{\partial t} \right)$
C) $\mu_0 \left(\frac{\partial E}{\partial t} \right)$
D) $\left(\frac{\partial E}{\partial t} \right)$
- Q9. A convex lens (refractive index 1.5) in water (1.33) behaves as:
A) Convex lens
B) Concave lens
C) Plane glass plate
D) Mirror
- Q10. In photoelectric effect, the slope of stopping potential versus frequency graph is:
A) h/e
B) e/h
C) h
D) e
- Q11. The half-life of a substance is 20 min. The time taken to decay 87.5% is:
A) 60 min
B) 40 min
C) 80 min
D) 30 min
- Q12. The logic gate equivalent to two NOT gates in series is:
A) BUFFER
B) AND
C) OR
D) NAND
- Q13. The escape velocity from a planet with double the mass and half the radius of Earth is:
A) $2v_e$
B) $4v_e$
C) $v_e/\sqrt{2}$
D) $\sqrt{2}v_e$
- Q14. The magnetic susceptibility of a paramagnetic material at temperature T is:
A) C/T
B) CT
C) C/T^2
D) Constant
- Q15. A wire of resistance R is stretched to twice its length. The new resistance is:
A) $4R$
B) $2R$
C) $R/2$
D) $R/4$

- Q16. The power factor of a purely capacitive circuit is:
A) 0
B) 1
C) 0.5
D) ∞
- Q17. The velocity of sound in a gas is proportional to:
A) $\sqrt{T}$
B) T
C) $1/T$
D) T^2
- Q18. The electric flux through a surface enclosing a dipole is:
A) 0
B) q/ϵ_0
C) $2q/\epsilon_0$
D) Infinite
- Q19. The magnifying power of a telescope with objective focal length f_o and eyepiece focal length f_e is:
A) f_o/f_e
B) f_e/f_o
C) $f_o f_e$
D) $f_o + f_e$
- Q20. The de-Broglie wavelength of an electron accelerated by potential V is:
A) $\sqrt{\frac{150}{V}} \text{ \AA}$
B) $\sqrt{\frac{V}{150}} \text{ \AA}$
C) $\frac{150}{V} \text{ \AA}$
D) $\frac{V}{150} \text{ \AA}$
- Q21. In a Carnot engine, the efficiency is $1/6$. If sink temperature is reduced by 62 K, efficiency becomes $1/3$. Source temperature is:
A) 372 K
B) 310 K
C) 273 K
D) 400 K
- Q22. The torque on a current loop in a magnetic field is:

$$\tau = NIAB \sin \theta.$$

For maximum torque:

- A) $\theta = 90^\circ$
B) $\theta = 0^\circ$
C) $\theta = 45^\circ$
D) $\theta = 180^\circ$
- Q23. The bulk modulus of an incompressible fluid is:
A) ∞

- B) 0
- C) 1
- D) Negligible

Q24. The force on a charge q moving with velocity v in magnetic field B is:

- A) $q(v \times B)$
- B) $q(v \cdot B)$
- C) $q(B \times v)$
- D) Both A and C

Q25. The emission of an alpha particle reduces the atomic number by:

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



SECTION 2 : CHEMISTRY

Q26. Which orbital has the lowest energy in a multi-electron atom?

- A) 4s
- B) 3d
- C) 4p
- D) 4d

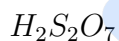
Q27. The bond order of



is:

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

Q28. The oxidation state of S in



is:

- A) +6
- B) +4
- C) +2
- D) +7

Q29. Which molecule is non-polar?

- A) BF_3
- B) NH_3
- C) H_2O
- D) HCl

Q30. The number of atoms in a BCC unit cell is:

- A) 2
- B) 1
- C) 4
- D) 8

Q31. The unit of rate constant for a zero-order reaction is:

- A) $\text{mol L}^{-1} \text{s}^{-1}$
- B) s^{-1}
- C) $\text{L mol}^{-1} \text{s}^{-1}$
- D) Dimensionless

Q32. The Gold Number is a measure of:

- A) Protective power
- B) Purity
- C) Concentration
- D) Color

Q33. Which is a Lewis Acid?

- A) $AlCl_3$
- B) NH_3
- C) H_2O
- D) OH^-

Q34. The hybridization of carbon in CH_4 is:

- A) sp^3
- B) sp^2
- C) sp
- D) dsp^2

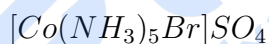
Q35. Bakelite is formed by the reaction of phenol and:

- A) Formaldehyde
- B) Acetone
- C) Acetaldehyde
- D) Benzaldehyde

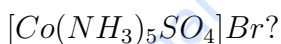
Q36. The reagent used in Clemmensen reduction is:

- A) $Zn-Hg/HCl$
- B) $LiAlH_4$
- C) H_2/Ni
- D) $NaBH_4$

Q37. Which isomerism is shown by



and



- A) Ionization isomerism
- B) Linkage isomerism
- C) Hydrate isomerism
- D) Coordination isomerism

Q38. The pH of 0.01 M HCl is:

- A) 2
- B) 1
- C) 12
- D) 10

Q39. Which metal is extracted by electrolysis of fused salts?

- A) Na
- B) Fe
- C) Cu
- D) Ag

Q40. Ozone is an allotrope of:

- A) Oxygen
- B) Sulfur
- C) Carbon
- D) Phosphorus

- Q41. The van der Waals equation is:
A) $\left(P + \frac{a}{V^2}\right)(V - b) = RT$
B) $PV = nRT$
C) $PV = \text{constant}$
D) None of these
- Q42. The maximum number of electrons in a subshell is:
A) $2(2l + 1)$
B) $2n^2$
C) $2l + 1$
D) n^2
- Q43. Which is the weakest acid?
A) CH_3COOH
B) $HCOOH$
C) $ClCH_2COOH$
D) CCl_3COOH
- Q44. Dumas method is used for estimation of:
A) Nitrogen
B) Carbon
C) Sulfur
D) Halogens
- Q45. Tyndall effect is shown by:
A) Colloids
B) True solutions
C) Suspensions
D) Precipitates
- Q46. Trans-esterification is used in the synthesis of:
A) Polyester
B) Nylon
C) Bakelite
D) PVC
- Q47. The geometry of SF_6 is:
A) Octahedral
B) Tetrahedral
C) Trigonal bipyramidal
D) Square planar
- Q48. Lanthanoid contraction is due to:
A) Poor shielding of 4f electrons
B) Shielding of 5d electrons
C) Increase in mass
D) Expansion of orbitals
- Q49. Alum is a double salt of:
A) $K_2SO_4 \cdot Al_2(SO_4)_3 \cdot 24H_2O$
B) Na_2SO_4

- C) $CuSO_4$
- D) $FeSO_4$

Q50. Bauxite is the chief ore of:

- A) Aluminum
- B) Iron
- C) Copper
- D) Zinc

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SECTION 3 : MATHEMATICS

Q51. If

$$f(x) = x^3,$$

then $f'(2)$ is:

- A) 12
- B) 8
- C) 6
- D) 4

Q52. The derivative of

$$\sin^2 x$$

is:

- A) $\sin 2x$
- B) $2 \sin x$
- C) $\cos 2x$
- D) $\cos x$

Q53. The integral

$$\int \frac{1}{x} dx$$

is:

- A) $\ln |x| + C$
- B) $x^2/2 + C$
- C) $x + C$
- D) $1/x^2 + C$

Q54. The sum of the roots of

$$ax^2 + bx + c = 0$$

is:

- A) $-\frac{b}{a}$
- B) $\frac{b}{a}$
- C) $\frac{c}{a}$
- D) $-\frac{c}{a}$

Q55. The value of

$$e^0$$

is:

- A) 1
- B) 0
- C) ∞
- D) e

Q56. The angle between vectors

$$\vec{a} = (1, 1, 0)$$

and

$$\vec{b} = (0, 1, 1)$$

is:

- A) 60°
- B) 90°
- C) 45°
- D) 30°

Q57. If

$$\log x = 2,$$

then x is:

- A) 100
- B) 10
- C) 1
- D) 20

Q58. The inverse of matrix

$$\begin{pmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{pmatrix}$$

is:

- A) Identity matrix
- B) Zero matrix
- C) Inverse does not exist
- D)

$$\begin{pmatrix} - & 1 & 0 & 0 \\ 0 & - & 1 & 0 \\ 0 & 0 & - & 1 \end{pmatrix}$$

Q59. The probability of an impossible event is:

- A) 0
- B) 1
- C) 0.5
- D) Undefined

Q60. The number of tangents that can be drawn from a point outside a circle is:

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

Q61.

$$\cos(90^\circ - \theta)$$

is equal to:

- A) $\sin \theta$
- B) $-\sin \theta$
- C) $\cos \theta$
- D) $-\cos \theta$

Q62. The determinant of a 3×3 identity matrix is:

- A) 1
- B) 0
- C) 3
- D) -1

Q63. The slope of the line

$$2x + 3y + 5 = 0$$

is:

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

Q64. The focus of the parabola

$$y^2 = 4ax$$

is:

- A) $(a, 0)$
- B) $(0, a)$
- C) $(-a, 0)$
- D) $(0, -a)$

Q65. The value of

$$\lim_{x \rightarrow \infty} \frac{1}{x}$$

is:

- A) 0
- B) 1
- C) ∞
- D) -1

Q66. The derivative of

$$\tan x$$

is:

- A) $\sec^2 x$
- B) $\cot x$
- C) $\sec x \tan x$
- D) $-\csc^2 x$

Q67. The value of

$$\int_0^1 x \, dx$$

is:

- A) 0.5
- B) 1
- C) 0
- D) 0.25

Q68. The complex number

$$i^3$$

equals:

- A) $-i$
- B) i
- C) 1
- D) -1

Q69. The sum of the first n natural numbers is:

- A) $\frac{n(n+1)}{2}$
- B) n^2
- C) $n(n+1)$
- D) $\frac{n}{2}$

Q70. The area of a circle with radius r is:

- A) πr^2
- B) $2\pi r$
- C) πr
- D) $4\pi r^2$

Q71. The scalar product

$$\vec{a} \cdot \vec{b}$$

is:

- A) $|\vec{a}||\vec{b}| \cos \theta$
- B) $|\vec{a}||\vec{b}| \sin \theta$
- C) 0
- D) $\vec{a} \times \vec{b}$

Q72. The range of

$$\sin x$$

is:

- A) $[-1, 1]$
- B) $[0, 1]$
- C) $(-\infty, \infty)$
- D) $[0, \infty)$

Q73. The derivative of

$$e^x$$

is:

- A) e^x
- B) xe^{x-1}
- C) $\ln x$
- D) $\frac{1}{x}$

Q74. The point $(1, 1)$ lies on:

- A) $y = x$
- B) $y = x^2 + 1$
- C) $x + y = 0$
- D) $y = 2x$

Q75. The median of

$$\{1, 5, 2, 8, 3\}$$

is:

- A) 3
- B) 2
- C) 5
- D) 8

SECTION 4 : ENGLISH

- Q76. Synonym of “Ambivalent”:
 A) Uncertain
 B) Sure
 C) Clear
 D) Brave
- Q77. He is addicted _____ gambling.
 A) to
 B) in
 C) at
 D) for
- Q78. Choose the correct spelling:
 A) Necessary
 B) Necesary
 C) Neccessary
 D) Nessecary
- Q79. “Fast” in “He fasts on Mondays” is a:
 A) Verb
 B) Noun
 C) Adjective
 D) Adverb
- Q80. Antonym of “Prodigal”:
 A) Thrifty
 B) Wasteful
 C) Generous
 D) Rich
- Q81. If she _____ me, she would tell me.
 A) trusted
 B) trusts
 C) has trusted
 D) will trust
- Q82. Passive voice of “They built a house” is:
 A) A house was built.
 B) A house is built.
 C) A house has been built.
 D) A house builds.
- Q83. The plural of “Criterion” is:
 A) Criteria
 B) Criterions
 C) Criterion
 D) Criterium

- Q84. Antonym of “Garrulous”:
A) Taciturn
B) Talkative
C) Loud
D) Quiet
- Q85. The idiom “Beat around the bush” means:
A) Avoid the topic
B) Fight
C) Look for a tree
D) Run away
- Q86. “Scarcely” is paired with:
A) When
B) Then
C) Than
D) Before
- Q87. Synonym of “Abstain”:
A) Refrain
B) Indulge
C) Eat
D) Take
- Q88. Choose the correct sentence:
A) Each of the girls is happy.
B) Each of the girls are happy.
C) Each of the girl is happy.
D) Each of the girl are happy.
- Q89. Prefer tea _____ coffee.
A) to
B) than
C) over
D) with
- Q90. Meaning of “Ad hoc”:
A) For a specific purpose
B) Forever
C) By accident
D) Before time

SECTION 5 : GENERAL KNOWLEDGE

- Q91. Longest river in the world:
A) Nile
B) Amazon
C) Ganga
D) Yangtze
- Q92. Father of the Indian Constitution:
A) B.R. Ambedkar
B) Jawaharlal Nehru
C) Mahatma Gandhi
D) Sardar Patel
- Q93. World Ozone Day is observed on:
A) September 16
B) October 16
C) August 16
D) December 16
- Q94. Parliament of the USA is called:
A) Congress
B) Diet
C) Duma
D) Knesset
- Q95. The first Nobel Prize in Chemistry was awarded to:
A) Jacobus Henricus van 't Hoff
B) Marie Curie
C) Albert Einstein
D) Niels Bohr
- Q96. The Kiel Canal connects the:
A) North Sea and Baltic Sea
B) Mediterranean Sea and Red Sea
C) Pacific Ocean and Atlantic Ocean
D) Pacific Ocean and Indian Ocean
- Q97. The Constitution of India came into effect on:
A) 26 January 1950
B) 26 November 1949
C) 15 August 1947
D) 26 January 1949
- Q98. The strongest muscle in the human body is generally considered to be the:
A) Masseter
B) Femur
C) Heart
D) Biceps

Q99. The first woman President of India was:

- A) Pratibha Patil
- B) Indira Gandhi
- C) Margaret Thatcher
- D) Golda Meir

Q100. The Red Cross has won the Nobel Peace Prize:

- A) 3 times
- B) 1 time
- C) 2 times
- D) Never

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SOLUTIONS

Q1. **Answer: A**

$$\begin{aligned}f(x) &= x^3 \\f'(x) &= 3x^2 \\f'(2) &= 3(2)^2 = 12\end{aligned}$$

Q2. **Answer: A**

$$\begin{aligned}y &= \sin^2 x \\\frac{dy}{dx} &= 2 \sin x \cos x \\&= \sin 2x\end{aligned}$$

Q3. **Answer: A**

$$\int \frac{1}{x} dx = \ln |x| + C$$

Q4. **Answer: A**
For

$$ax^2 + bx + c = 0$$

Sum of roots:

$$-\frac{b}{a}$$

Q5. **Answer: A**

$$e^0 = 1$$

Q6. **Answer: A**

$$\begin{aligned}\vec{a} \cdot \vec{b} &= (1)(0) + (1)(1) + (0)(1) = 1 \\|\vec{a}| &= \sqrt{2}, \quad |\vec{b}| = \sqrt{2} \\\cos \theta &= \frac{1}{2} \\\theta &= 60^\circ\end{aligned}$$

Q7. **Answer: A**

$$\log x = 2$$

(Base 10)

$$x = 10^2 = 100$$

Q8. **Answer: A**

The inverse of identity matrix is identity itself:

$$I^{-1} = I$$

Q9. **Answer: A**

Probability of an impossible event:

$$P = 0$$

Q10. **Answer: A**

Exactly two tangents can be drawn from a point outside a circle.

Q11. **Answer: A**

$$\cos(90^\circ - \theta) = \sin \theta$$

Q12. **Answer: A**

For identity matrix:

$$|I| = 1$$

Q13. **Answer: A**

$$2x + 3y + 5 = 0$$

$$y = -\frac{2}{3}x - \frac{5}{3}$$

Slope:

$$m = -\frac{2}{3}$$

Q14. **Answer: A**

For

$$y^2 = 4ax$$

Focus:

$$(a, 0)$$

Q15. **Answer: A**

$$\lim_{x \rightarrow \infty} \frac{1}{x} = 0$$

Q16. **Answer: A**

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

Q17. **Answer: A**

$$\int_0^1 x \, dx = \left[\frac{x^2}{2} \right]_0^1 = \frac{1}{2}$$

Q18. **Answer: A**

$$i^3 = i^2(i) = (-1)i = -i$$

Q19. **Answer: A**

$$1 + 2 + \dots + n = \frac{n(n+1)}{2}$$

Q20. **Answer: A**

Area of circle:

$$A = \pi r^2$$

Q21. **Answer: A**

$$\vec{a} \cdot \vec{b} = |\vec{a}||\vec{b}| \cos \theta$$

Q22. **Answer: A**

Range of sine function:

$$[-1, 1]$$

Q23. **Answer: A**

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

Q24. **Answer: A**

Point (1, 1) satisfies:

$$y = x$$

Q25. **Answer: A**

Arrange:

1, 2, 3, 5, 8

Median:

3

Q26. **Answer: A**

“Ambivalent” means having mixed feelings or being uncertain.

Q27. **Answer: A**

Correct expression:

addicted to gambling

Q28. **Answer: A**

Correct spelling:

Necessary

Q29. **Answer: A**

In this sentence “fast” means to abstain from food, hence it is a verb.

Q30. **Answer: A**

“Prodigal” means wasteful. Its antonym is “thrifty.”

Q31. **Answer: A**

Subjunctive form:

If she trusted me, she would tell me.

Q32. **Answer: A**

Passive voice:

A house was built.

Q33. **Answer: A**

Plural of criterion:

Criteria

Q34. **Answer: A**

“Taciturn” means reserved or not talkative.

Q35. **Answer: A**

The idiom means avoiding the main topic.

Q36. **Answer: A**

Standard usage:

Scarcely...when

Q37. **Answer: A**

“Abstain” means to refrain from doing something.

Q38. **Answer: A**

“Each” is singular:

Each of the girls is happy.

Q39. **Answer: A**

Correct usage:

Prefer tea to coffee.

Q40. **Answer: A**

“Ad hoc” means for a specific purpose.

Q41. **Answer: A**

The Nile is traditionally considered the longest river in the world.

Q42. **Answer: A**

Dr. B.R. Ambedkar is known as the Father of the Indian Constitution.

Q43. **Answer: A**

World Ozone Day:

16 September

Q44. **Answer: A**

The legislature of the USA is called Congress.

Q45. **Answer: A**

The first Nobel Prize in Chemistry (1901) was awarded to:

J.H.van't Hoff

Q46. **Answer: A**

The Kiel Canal connects:

North Sea and Baltic Sea

Q47. Answer: A

The Constitution of India came into force on:

26 January 1950

Q48. Answer: A

The masseter muscle is regarded as the strongest muscle based on force generated.

Q49. Answer: A

Pratibha Patil became India's first woman President in 2007.

Q50. Answer: A

The International Red Cross Movement has received the Nobel Peace Prize three times:

1917, 1944, 1963

Q51. Answer: A

Mitochondria produce 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 takes place during the pachytene stage of Prophase-I of meiosis.

Q54. Answer: A

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

Q55. Answer: A

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

Q56. Answer: A

Glycolysis occurs in the cytoplasm of cells.

Q57. Answer: A

Bile salts emulsify fats into small droplets to aid digestion.

Q58. Answer: A

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

Q59. Answer: A

Neurotransmitters are stored in synaptic vesicles present in nerve endings.

Q60. Answer: A

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

Q61. Answer: A

Gout is caused by deposition of uric acid crystals in joints.

Q62. Answer: A

T-tubules are specialized structures present 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 involves lactate transport between muscles and the 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 is responsible for exchange of nutrients and gases and also secretes hormones.
- Q69. **Answer: A**
Auxin promotes elongation of plant cells.
- Q70. **Answer: A**
PCR employs Taq polymerase, a heat-stable DNA polymerase.
- Q71. **Answer: A**
Restriction enzymes recognize specific palindromic DNA sequences.
- Q72. **Answer: A**
Rh incompatibility may cause erythroblastosis fetalis in newborns.
- Q73. **Answer: A**
The hypothalamus regulates homeostasis including temperature, hunger and thirst.
- Q74. **Answer: A**
Dystrophin deficiency causes Duchenne muscular dystrophy.
- Q75. **Answer: A**
Amniotic fluid protects the developing fetus from mechanical shocks.
- Q76. **Answer: A**
“Ambivalent” means having mixed feelings or uncertainty.
- Q77. **Answer: A**
The correct phrase is:
addicted to gambling
- Q78. **Answer: A**
The correct spelling is:
Necessary
- Q79. **Answer: A**
In the sentence, “fast” means to abstain from food and functions as a verb.

Q80. **Answer: A**

“Prodigal” means wasteful; its antonym is “thrifty.”

Q81. **Answer: A**

Correct conditional form:

If she trusted me, she would tell me.

Q82. **Answer: A**

Passive voice:

A house was built.

Q83. **Answer: A**

Plural of criterion:

Criteria

Q84. **Answer: A**

“Taciturn” means reserved or not talkative.

Q85. **Answer: A**

The idiom means avoiding the main issue or topic.

Q86. **Answer: A**

The accepted construction is:

Scarcely...when

Q87. **Answer: A**

“Abstain” means to refrain from doing something.

Q88. **Answer: A**

“Each” is singular:

Each of the girls is happy.

Q89. **Answer: A**

Correct usage:

Prefer tea to coffee.

Q90. **Answer: A**

“Ad hoc” means for a specific purpose.

Q91. **Answer: A**

The Nile is traditionally regarded as the longest river in the world.

Q92. **Answer: A**

Dr. B.R. Ambedkar is known as the Father of the Indian Constitution.

Q93. **Answer: A**

World Ozone Day is observed on:

16 September

Q94. **Answer: A**

The legislature of the United States is called Congress.

Q95. **Answer: A**

The first Nobel Prize in Chemistry was awarded to:

J.H.van'tHoff

Q96. **Answer: A**

The Kiel Canal connects the North Sea and the Baltic Sea.

Q97. **Answer: A**

The Constitution of India came into effect on:

26 January 1950

Q98. **Answer: A**

The masseter muscle is generally considered the strongest muscle in the human body based on force exerted.

Q99. **Answer: A**

Pratibha Patil became the first woman President of India in 2007.

Q100. **Answer: A**

The International Red Cross Movement has received the Nobel Peace Prize three times:

1917, 1944, 1963