

Monthly Progressive Test

Class: XII

Subject: PCMB



Time: 180 mins Full Marks: 200

Important Instructions:

- 1. The Test is of 180 mins duration and the Test Booklet contains 100 multiple choice questions of single correct option only. There are four sections with four subjects. You have to attempt all 100 questions (Candidates are advised to read all 100 questions). Questions 1 to 25 contain Physics, Questions 26 to 50 contain Chemistry, Questions 51 to 75 contain Mathematics, Questions 76 to 100 contain Biology.
- 2. Each question carries 2 marks. For each correct response, the candidate will get 2 marks. There is no negative mark for wrong response. The maximum mark is 200.
- 3. Use Blue / Black Ball point Pen only for writing particulars marking responses on Answer Sheet.
- 4. Rough work is to be done in the space provided for this purpose in the Test Booklet only.
- 5. On completion of the test, the candidate must handover the Answer Sheet to the invigilator before leaving the Room / Hall. The candidates are allowed to take away this Test Booklet with them.
- 6. The CODE for this Booklet is Off Line MPT0424072024.
- 7. The candidates should ensure that the Answer Sheet is not folded. Do not make any stray marks on the Answer Sheet. Do not write your UID No. anywhere else except in the specified space. Use of white fluid for correction is NOT permissible on the Answer Sheet. **Do not scrible or write on or beyond discrete bars of OMR Sheet at both sides**.
- 8. Each candidate must show on-demand his/her Registration document to the Invigilator.
- 9. No candidate, without special permission of the Centre Superintendent or Invigilator, would leave his/her seat.
- 10. Use of Electronic Calculator/Cellphone is prohibited.
- 11. The candidates are governed by all Rules and Regulations of the examination with regard to their conduct in the Examination Hall. All cases of unfair means will be dealt with as per Rules and Regulations of this examination.
- 12. No part of the Test Booklet and Answer Sheet shall be detached under any circumstances.
- 13. There is no scope for altering response mark in Answer Sheet.

Space For Rough Works



Physics

1.	The electric field (applied) $ec{E}$ inside a current carrying conductor of current density	$ec{J}$,
	If ρ is the resistivity of conductor the \vec{E}	

 $oldsymbol{eta}$ $ho ec{J}$

 \blacksquare $\frac{\vec{J}}{\rho}$

 \odot \vec{J}

None of the above

2. Due to stretching of conducting wire of length *l*, if *R* is the resistance, then $R \propto$

lack A l

f B l^2

 $\odot \frac{1}{l}$

 $\bigcirc \frac{1}{l^2}$

3. If a conducting wire is stretched, then its resistance $R \propto (r = \text{radius of wire})$

(A) r^{-2}

 \bigcirc r

© r^{-4}

 \bigcirc r^3

4. For small change in length during stretching of conducting wire of length l and resistance R, $\frac{\Delta R}{R}$ =

lacktriangledown $\frac{\Delta l}{l}$

 $\bigcirc B \frac{2\Delta l}{l}$

 $\odot \frac{3\Delta l}{l}$

 \bigcirc 1.5 $\frac{\Delta l}{l}$

5. For a small change in radius during stretching of conduction wire of resistance R and radius r, for $\frac{\Delta R}{R}$ =

 $\bigcirc 2\frac{\Delta r}{r}$

 \bigcirc $-3\frac{\Delta r}{r}$

 \bigcirc $-4\frac{\Delta r}{r}$

6. $R = \rho \cdot \frac{l}{A}$ the formula is

A False

B True

© May be true

None of these

7. $\frac{10 \text{ Volt}}{|\mathbf{r}|^{6 \text{ Volt}}} \equiv \frac{E(\text{Volt})}{|\mathbf{r}|^{6 \text{ Volt}}}$

Then E =

A 2 Volt

8 4 Vol

© 3 Volt

1 Volt

8. The SI unit of emf of a cell is

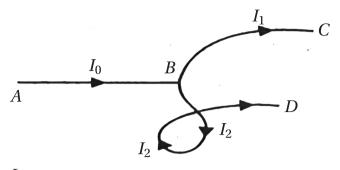
A Volt

B J/C

© both (a) and (b) are correct

None of these

9.



B $I_1 + I_2$

 \bigcirc I_2

None of these

- **10.** Direction of conventional current is
 - A direction of flow of positive charge
- B direction of flow of electrons
- © both (A) and (B) are correct

- none of these
- **11.** If q = 2t Coulomb (where t is in s), then current in the circuit is

A 2 A

B 1 A

© 1.5 A

© 2.5 A

12. Under the influence of an external electric field *E* applied across the end of a conductor, the acceleration of each electron is

 \bigcirc -eE/m

 \bigcirc -mE/e

 \bigcirc E/m

© *eE*

■ Assertion Reason based Questions (13–14):

Directions: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
- (c) Assertion (A) is true but reason (R) is false.
- (d) Assertion (A) is false but Reason (R) is true.
- **13**. **Assertion :** A current carrying conductor is not charged.

Reason: At any instant, number of proton is equal to number of electron.

A a

® b

© c

© d

14. **Assertion :** In conductor, free electrons cannot constitute a current.

Reason: Inside conductor, free electrons move randomly.

A a

B b

© c

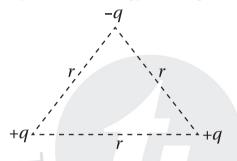
© d

■ Case Study Based Questions (Q. No. 15):

Read the passage given below and answer the following questions.

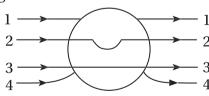
After long use of cells, due to internal chemical products, cells internal resistance $r(\Omega)$ increases, since $V = E - i \cdot r$, so there is decrease in terminal potential difference.

- **15**. Terminal $\rho \cdot d$ of discharging cell is $V = E i \cdot r$. Is it true
 - A True
- (B) False
- © May be true
- We can't say
- **16**. If 0.5 J of work is done in moving a negative charge of -0.5 C between two points, the potential difference is
 - $\triangle + 10 \text{ V}$
- \bigcirc +5 V
- \bigcirc -1 V
- \bigcirc -5 V
- 17. The magnitude of electrical potential energy of the given charge configuration is



- $\triangle kq^2/r$
- $\mathbf{B} ka^2/2\mathbf{r}$
- © Zero
- None of these
- **18.** The electric potential *V* is constant in a region. The \vec{E} in that region $|\vec{E}|$ =
 - **(A)** 0

- B Positive
- © Negative
- None of these
- 19. A metallic solid sphere is placed in a uniform electric field. Which path, the lines of force follow as shown in figure?

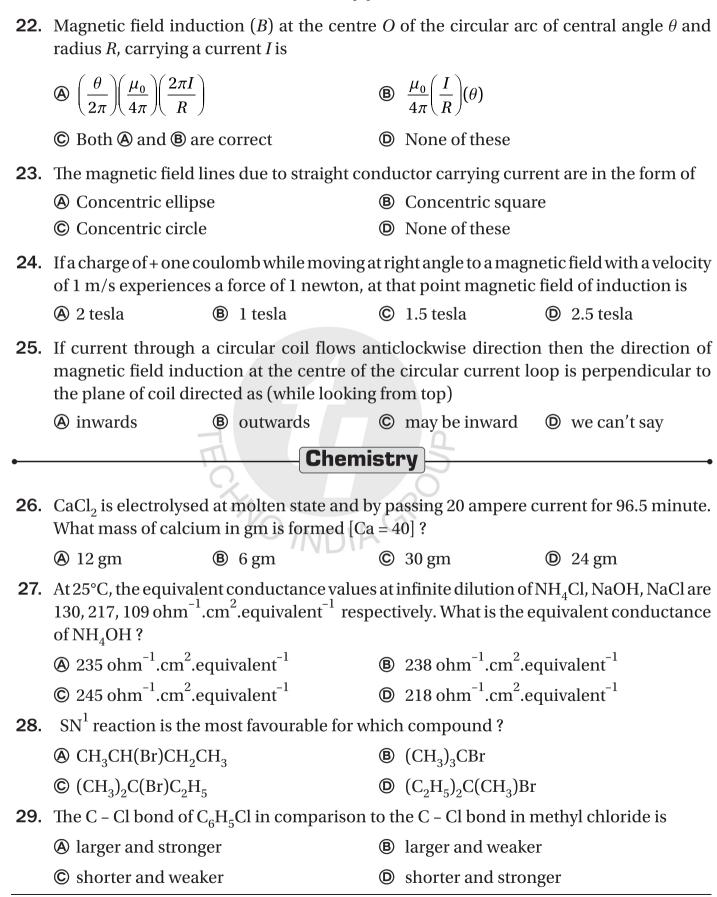


(A) 1

B 2

© 3

- (D) 4
- 20. When battery across the plates of charged capacitor is put off and dielectric slab is introduced in between the plates of the capacitors, then charge on plate
 - (A) Increases
- B Decreases
- © Remains same
- None of these
- **21.** Magnetic field (*B*) at the centre of the circular coil of radius *R* and current *I* is
- $\circ \frac{2\pi I}{R}$



			[၁]			
30.	$CH_3CH_2CH = CH_2 - CH_2$	$\xrightarrow{\text{HBr}} X \xrightarrow{\text{alcoholic}} X$	produ	cts The correc	ct major _l	product is
	\bigcirc CH ₃ CH ₂ CH = CH	\mathbb{Z}_2	B	$H_3CCH = CH$	ICH_3	
	\bigcirc H ₃ CCH = C = CH ₂			$H_2C = CH - C$		2
31.	Propene takes part in the product is	n oxymercuration d	emerc	uration reacti	on. Corre	ect statement about
	Compound is opt	tically active				
	It is a secondary a	alcohol				
	© It is less water sol	luble than its position	onal is	omer		
	After oxidation re	eaction, it forms an	aldeh	yde		
32.	Which is true for lea	d storage battery?				
	At the time of disc	charging, Pb is redu	iced a	$nd PbO_2$ is ox	idised	
	At the time of cha	arging, H_2SO_4 is red	uced a	and PbO ₂ is p	roduced	
	© At the time of cha	arging, Pb is formed	and I	H_2SO_4 is reduced	ced	
	D H ₂ SO ₄ suffers nei	ther oxidation nor	reduc	tion		
33.	Consider the given of The correct statement	data $E_{(A^+/A)}^{\circ} = -0.18$	$v, E_{(B)}^{\circ}$	$_{+/B)} = -1.06 \mathrm{v}$	E (D+/D) =	=-0.54 v
	The correct statemen	nt is			9	
	(A) Metal A, B, D can	release $\rm H_2$ gas fron	n dilut	e HCl solutio	n	
	® Metal D can relea	ase metal B when it	reacts	with aqueou	s solutio	n of the salt B_2SO_4
	© Metal A is stronge	er reducing agent th	nan m	etal D		
	A correct cell rep	resentation is D D	† B [†]	В		
34.	A direct current dep mass of aluminium by the same amount	(atomic mass = 27	-			·
	a 2.7 gm	B 9 gm	©	4.5 gm	(D)	18 gm
35.	Silver fluoride in ace	etone is the correct	reagei	nt of which re	action?	
	A Swarts reaction		B	Sandmayer	reaction	
	© Hunsdiecker read	ction	(D)	Finkelstein r	eaction	
36.	Which compound h	as the highest boili	ng poi	nt?		
	A Chlorobenzene		B	1, 2-dichloro	benzene	9

1, 4- dichlorobenzene

© 1, 3-dichlorobenzene

- **37.** Which of the following has the highest boiling point?
 - A propan-1,2,3-triol

® propan-1,2-diol

© propanol

propan-2-ol

Question 38 to 40 are based on the given paragraph. Read the paragraph carefully and select the correct answer

SN² reaction becomes favourable when the alkyl group is small or less crowded. In this mechanism, inversion of configuration occurs. In this reaction, the solvents are acetone, dimethyl sulphoxide (DMSO), dimethyl formamide (DMF).

- **38.** Among the given compounds, which takes part in SN^2 reaction most spontaneously?
 - \bigcirc C₆H₅Br

® CH₃Br

 $(CH_3)_3CI$

- © CH₃CH(Br)CH₂CH₃
- **39.** (1R)-CH₃CH(D)(Br) reacts with KOH in acetone medium. The correct product will be
 - **(a)** (1R)-CH₃CH(D)(OH) only
- (1S)-CH $_3$ CH(D)(OH) only

© (a) major, (b) minor

- (b) major, (a) minor
- 40. Which of the following molecule reacts with NaOH in DMF at the fastest rate?
 - \bigcirc H₂C = CHBr

® C₆H₅CH₂Br

 \bigcirc H₂C = CH - CH₂Br

- ⊕ H₃CCH₂CH₂CH₂Br
- **41.** When sugar is added to water then boiling point of the solution is higher than that of pure water. This is due to
 - A Increase in the escaping character of water
 - ® Increase in the extent of hydrogen bonding in the solvent
 - © Increase in the solute solvent interaction in the system
 - Decrease in the conductivity of water
- **42.** Find out the correct statement
 - Neither standard reduction potential nor resistance is an extensive property
 - Both standard reduction potential nor resistance are extensive properties
 - © Standard reduction potential is intensive property while resistance is extensive property
 - Standard reduction potential is extensive property while resistance is intensive property

			[7]				
43.	B. What is the correct $[10.(E_{cell})]$ value of the given representation $A A^+ B^+ $ B is						
	Given that $E^{\circ}_{(A^+/A)}$	=-1.35 v	$volt, E^{\circ}_{(B^+/B)} = +0.45$	5 volt			
	(A) 19	B 9	©	18	1 7		
44.	In the reaction 2A for <i>B</i> is halved. Wh				of reactant A is tripled a ction ?	and that	
	(A) decreases by 4.5	5 times	B) increases	s by 4.5 times		
	© decreases by 5.	5 times	(D)	increases	s by 5.5 times		
45.	Consider the read 4.8×10^{-3} and with	ction 4A respect t	$+xB \longrightarrow 2C + 5D.$ to B is 3.6×10^{-3} . V	If rate of What is the	reaction with respect value of 'x'?	to A is	
	A 4	B 2	©	3	© 5		
46.	$C_2H_5COOH - \frac{Ag_2O}{\Delta}$	$\xrightarrow{\text{D}} X \xrightarrow{\text{Br}_2}$	\rightarrow Y				
	Correct statement	about co	mpound Y is —				
	A Boiling point of	f 'Y' is hig	her than its highe	er homolog	[
	® Compound 'Y'	always ta	ke part in SN ¹ rea	actions			
	© Compound 'Y'	is highly :	soluble in water		5		
	© Compound 'Y'	has only j	primary carbon at	toms	0		
47.	Consider the position statements	tional iso	V /)	ar formula	C ₃ H ₆ Br ₂ and select the	correct	
	(I) All isomers are sp ³ hybridised						
	(II) 3 positional iso	omers are	possible with this	is molecula	r formula		
	(III) Among all the	isomers,	only one is optica	ally active			
	♠ I, II, III	® Ⅱ, Ⅰ	III ©) I, III	I, II		
0		10 40 FO	ACCEPTION	I DEACON	based superious Cal	4 41	

Question number 48 to 50 are ASSERTION-REASON based questions. Select the correct option

OPTION A: Both assertion and reason is correct and reason is the correct explanation of assertion

OPTION B: Both assertion and reason is correct and reason is not the correct explanation of assertion

OPTION C: Assertion is correct statement but reason is wrong statement

OPTION D: Assertion is wrong statement but reason is correct statement

48. Assertion : Iodobenzene reacts with ${\rm NaNH_2}$ to form aniline more spontaneously than chlorobenzene

Reason: Dipole moment of chlorobenzene is higher than iodobenzene

49. Assertion : 2,4,6-trinitrochlorobenzene raects with NaOH more spentaneously than 4-nitrochlorobenzene

Reason: Boiling point of 4- nitrochlorobenzene is higher than 2, 4, 6 - trinitrochlorobenzene

50. Assertion : KCl and NH₄Cl cannot be used in salt bridge of a cell containing Ag^+ , Hg_2^{2+} , Tl^+ ions

Reason: Cell will be destroyed due to precipitation of metal chlorides

Mathematics

51. Suppose *f* is a real function and *c* is a point in its domain. The derivative of *f* at *c* is defined by

$$\bigcirc \lim_{h\to 0} \frac{f(c-h)-f(-c)}{h}$$

- none of these
- **52.** We say that a function f is differentiable at a point c in its domain if
 - $igotimes \lim_{h \to 0^-} \frac{f(c+h) f(c)}{h}$ and $\lim_{h \to 0^+} \frac{f(c+h) f(c)}{h}$ are equal but not finite
 - $\mathbb{B}\lim_{h\to 0^-} \frac{f(c+h)-f(c)}{h}$ and $\lim_{h\to 0^+} \frac{f(c+h)-f(c)}{h}$ are finite and equal

$$\bigcirc \lim_{h \to 0^{-}} \frac{f(c+h) - f(c)}{h} \neq \lim_{h \to 0^{+}} \frac{f(c+h) - f(c)}{h}$$

- (D) all of the above
- **53.** According to chain rule if f = V(u(x)) and u(x) = t

$$\bigcirc$$
 $\frac{df}{dx} = \frac{dv}{dx} \cdot \frac{du}{dx}$

$$\bigcirc$$
 $\frac{df}{dx} = \frac{dv}{dt} \cdot \frac{dt}{dx}$

none of these

- **54.** Let $f(x) = \sin(x^2)$ then f'(x)
 - $\triangle 2\cos x^2$
- \bigcirc cos x^2
- \bigcirc 2x sin x^2
- $\bigcirc 2x \cos x^2$

55. Find
$$\frac{dy}{dx}$$
 if $y^x = \pi^e$

- **56.** The rate of change of the area of a circle with respect to its radius r at r = 6 cm is
 - \triangle 10 π cm
- **B** 12π cm
- © $8\pi \text{ cm}$
- \bigcirc 11 π cm
- **57.** Find the intervals in which the function f given by $f(x) = \sin x + \cos x$, $0 \le x \le 2\pi$ is decreasing

$$\bigcirc$$
 $\left[0, \frac{\pi}{4}\right)$

- none of these
- **58.** The set of points where $f(x) = \frac{x}{4+|x|}$ is differentiable is
 - \triangle $(-\alpha, \alpha)$
- $(0, \alpha)$
- \bigcirc $(-\alpha,0)\cup(0,\alpha)$
 - none of these

- **59.** If $y = \cos^{-1}\left(\frac{2\cos x 3\sin x}{\sqrt{13}}\right)$, then $\frac{dy}{dx}$ is
- Constant = 1
- © Constant ≠ 1
- none of these

- **60.** The interval in which $y = x^2 e^x$ is decreasing is
 - \triangle $(-\infty, \infty)$
- $(-\infty, -2)$ $(0, \alpha)$
- \bigcirc (-2, 0)

Assertion Reason based Questions (61 – 62):

Directions: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
 - (c) Assertion (A) is true but reason (R) is false.
 - (d) Assertion (A) is false but reason (R) is true.
- **61**. **Assertion (A):** Every continuous function is differentiable.

Reason (R): Every differentiable function is continuous

(A) a

© c

O d

62. Assertion (A): If
$$y = \tan^{-1} \left(\frac{\cos x + \sin x}{\sin x - \cos x} \right), \frac{-\pi}{4} < x < \frac{\pi}{4}$$
, then $\frac{dy}{dx} = -1$

Reason (R):
$$\frac{\cos x + \sin x}{\sin x - \cos x} = \tan \left(x + \frac{\pi}{4} \right)$$

A a

® b

© c

(D) d

Case study based Questions (63 - 65):

Students of class XII went for a summer camp near K_2 with their school teachers. While exploring the place they saw V-(not exactly) shape mountains, their math teacher told them this shape follows some mathematical function given by

$$f(x) = |x - 3| + |x - 4|$$

63. Right hand derivative of f(x) at x = 3 is

A) 2

B -2

© 0

① 1

64. Left hand derivative of f(x) at x = 4 is

A) 2

B -2

© 0

1

65. Choose the correct statement:

(B) f(x) is differentiable at x = 4 but not x = 3

 \bigcirc f(x) is not continuous at x = 3 and 4

 \bigcirc f(x) is continuous at x = 3 and 4 but not differentiable at x = 3 and x = 4

66. The value of $\tan^{-1} 1 + \tan^{-1} 2 + \tan^{-1} 3$ is

(A) 0

© π

67. Let $A = \{1, 2, 3, 4, \dots n\}$. How many bijective function $f: A \rightarrow A$ can be defined?

 \bigcirc n-1

 \bigcirc n

 \bigcirc n

68. If $A = \begin{bmatrix} a & 0 & 0 \\ 0 & a & 0 \\ 0 & 0 & a \end{bmatrix}$, then the value of |adj A| is

 \mathbf{A} a^3

 \mathbf{B} a^6

 $\bigcirc a^9$

① a^{27}

69. If $A = \begin{bmatrix} 1 & 2 & x \\ 3 & -1 & 2 \end{bmatrix}$ and $B = \begin{bmatrix} y \\ x \\ 1 \end{bmatrix}$ be such that $AB = \begin{bmatrix} 6 \\ 8 \end{bmatrix}$ then

B y = -2x

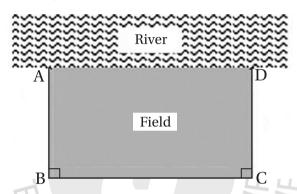
 \bigcirc v = -x

- **70.** If $f(x) = \begin{cases} x & \text{if } x \text{ is rational} \\ 1-x & \text{if } x \text{ is irrational} \end{cases}$ then
 - **(A)** *f* is only right continuous at $x = \frac{1}{2}$
 - © f is continuous at $x = \frac{1}{2}$

- **B** *f* is only left continuous at $x = \frac{1}{2}$
- fis discontinuous at all points

Case study based Questions (71 - 73):

A farmer wants to fence a rectangular field that is adjacent to a river. He needs to use fencing only on three sides of the rectangle (the two shorter sides and one longer side opposite the river). He has 300 meters of fencing available.



- **71.** Determine the length that will maximise the area of the field.
 - **(A)** 100m
- **B** 150m
- © 200m
- **©** 175m

- **72.** Determine the maximum area of the field.
 - \triangle 11250 m²
- **B** 11500 m^2 **C** 10250 m^2
- \bigcirc 10500 m²
- **73.** If the cost of fencing is ₹20 per 10m find the total cost of fencing
 - **(A)** ₹400
- **B** ₹500
- © ₹600

Assertion Reason based Questions (74 – 75):

Directions: In the following questions, a statement of assertion (A) is followed by a statement of reason (R). Mark the correct choice as:

- (a) Both assertion (A) and reason (R) are true and reason (R) is the correct explanation of assertion (A).
- (b) Both assertion (A) and reason (R) are true but reason (R) is not the correct explanation of assertion (A).
 - (c) Assertion (A) is true but reason (R) is false.
 - (d) Assertion (A) is false but reason (R) is true.

74.	Assertion (A): The function $f(x) = x^3 - 3x + 1$ is increasing for all x .							
	Reason (R) : A function $f(x)$ is increasing if its first derivative $f'(x)$ is positive.							
	(A) a	B b	©	c	© d			
75.	Assertion (A): The	he rate of change of th	ie area A	A of a circle with	respect to radius (r) is $2\pi r$			
	Reason (R): The	area of a circle is give	en by A	$=\pi r^2$				
	A a	B b	©	c	© d			
		D:		\Box				
•		В	ology					
76.		esentation to calcula netic cross is called _		_	all possible genotypes of			
	A Punnett squar	e	B	Polygenic inhe	eritance			
	© Check board		(D)	Genome sequ	encing			
77.	In Mendel's cross was dwarf.	s, when a tall pea pla	nt was s	self pollinated ₋	of the progeny			
	Two-third	One -third	©	One -fourth	Two - fifth			
78.	Experimental pro	oof for replication of I	ONA wa	s given by				
	A Watson and C	rick	B	Taylor et al				
	© Meselson and	Stahl	(D)	Mendel				
79.	Which is the mai	•	s a DNA	template to ca	atalyse the polymerisation			
	DNA Depende	ent DNA Polymerase	B	DNA Depende	ent RNA Polymerase			
	© Helicase		(D)	DNA Ligase				
80.	A segment of DN	A that codes for a pol	ypeptid	le is	-			
	A Cistron	B Exon	©	Intron	Gene			
81.	Analogous struct	ures are a result of						
	Divergent evo	lution	lacksquare	Convergent ev	olution			
	© Shared Ances	try	(D)	Stabilising sele	ection			
82.	The scientific nar	ne of Java man is						
	A Homo habilis		lacksquare	Homo sapiens	neandarthalensis			
	© Homo erectus	erectus	(D)	Australopitheo	cus afarensis			

■ Assertion-Reason type Questions

Directions: Each of the following questions (83–85) consists of two statements, namely Assertion (A) and Reason (R).

For selecting the correct answer, use the following code:

- **A.** Both Assertion (A) and Reason (R) are true and (R) is the correct explanation of A.
- **B.** Both A and R are true, but R is not the correct explanation of A.
- **C.** A is true, R is false.
- **D.** A is false, R is true.
- **83**. **Assertion:** Haemophilia is a sex linked disease.

Reason: It is due to the presence of a recessive gene on X chromosome.

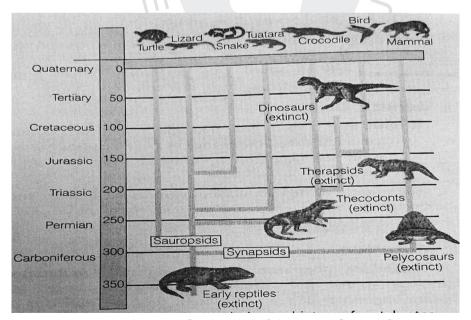
84. Assertion: Genetic code is universal.

Reason: Genetic code is same for all organisms.

85. Assertion: ABO blood groups in human beings is controlled by the gene I.

Reason: The gene I has three alleles, I^A, I^B and i.

Study the given diagram and answer the following questions (Questions 86 to 90)



Representative evolutionary history of vertebrates through geological period

86.	Lobefins ((Coelocanth)	were the	ancestors	of modern	day	
	· ·	,				, ,	

A Fish

B Frogs

© Reptiles

Birds

87.	In Jurassic period	l, the fi	rst mammals th	nat evo	lved were			
	A Shrews	B	Rats	©	Whales	(D)	Horses	
88.	The biggest dinos	aur wa	ns					
	Spinosaurus			B	Triceratops			
	© Brachiosaurus	3		(D)	Tyrannosauru	ıs		
89.	Evolutionary cha	nges tł	nat occurred in	humar	ns are—			
	Development	of proi	minent chin	B	Development	t of com	munity life	
	© Slow assumpti	ion of e	erect posture	O	All of these			
90.	The hominids we	re anc	estors of					
	Apes			B	Man			
	© Both apes and	man		(D)	Neither apes	nor mai	1	
91.	A plant that prod	uces b	oth chasmogan	nous ar	nd cleistogamo	ous flow	er is	
	A Papaya	lacksquare	Viola	©	Water lily	(D)	Maize	
92.	The remnant pers	sistent	nucellus preser	nt in th	e seeds of blac	k peppe	er and beet is o	alled
	A Pericarp	B	Perisperm	©	Epicarp	(D)	Suspensor	
93.	Which one of the	follow	ing is not an ST	D?	20			
	A Gonorrhoea	B	Syphilis	©	Hepatitis A	(D)	Hepatitis B	
94.	Streptokinase, propatients of myoca			erium S	Streptococcus,	is used	as a	for
		lacksquare	clot buster	©	pain killer	(D)	antibiotic	
95.	Baculovirus is associated with—							
	Sewage treatment			B	Rhizobium			
	© Integrated Pes	t Mana	agement	(D)	Enhancemen	t of soil	fertility	
96.	Mutations lead to							
	Extinction of organisms			B	Variations in populations			
	© Increase in po	pulatio	on	D	Maintaining g	genetic (continuity	
97.								
	Down's syndro			B	Klinefelter's s	vndrom	ne	
	© AIDS				Turner's synd	•		

98.	DNA replication is						
	Conservative and c	discontinuous					
	Semi conservative and semi discontinuous						
	© Conservative and continuous						
	© Conservative						
99.	With 4 bases, the nun	nber of possible triple	et codons is	_			
	A 24	B 32	© 48	D 64			
100	. The classical exampl	e of adaptive radiatio	on during formation o	f new species is–			
	Marsunials of Aust	ralia	Darwin's finches				



All

© Giant tortoise

Space For Rough Works