

Monthly Progressive Test

Class: XI

Excellence
Programme
TECHNO ACE

A cademic

Subject: PCMB

Test Booklet No.: MPT03 Test Date: 1 4 0 6 2 0 2 4

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 MPT0314062024.
- 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 scribble 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. Dimensions of A & B are different
 - A Physical quantity A can be added with B
 - B Physical quantity A can be subtracted from B
 - © Physical quantity A cannot be divided by B
 - Physical quantity A can be multiplied or divided by B
- **2.** $\frac{[x]+2[y][w]}{[z]}$ is a dimensionless quantity. If dimension of [x] is LT⁻² and that of [y] is M²T⁻¹ then dimension of [z] & [w] is
 - **(A)** $M^0L^1T^{-2}$, $M^{-2}LT^{-1}$ **(B)** $M^0L^1T^{-2}$, $M^{-1}L^1T^{-2}$ **(C)** $M^1L^1T^{-2}$, $M^{-2}LT^{-1}$ **(D)** none of these
- **3.** If P, Q, and R are physical quantities having different dimensions, which of the following combinations can never be a meaningful quantity

- **4.** In a newly derived system length is $1R = 10^1$ m, mass $1y = 10^1$ kg & time $1X = 10^2$ sec, acceleration is measured as $10RX^{-2}$ and force $= 2y \cdot Rx^{-2}$ find out mass
 - **(A)** 0.2 kg
- ® 1kg

- © 20 kg
- none of these

5. Suppose refractive index is given as

$$\mu = A + \frac{B}{\lambda^2}$$

where A and B are constants and λ is wavelength, then dimension of B are same as that of

- (wavelength)²
- **B** volume
- © pressure
- density
- **6.** Two bodies of different masses say 1 kg and 5 kg are dropped simultaneously from a tower. They will reach the ground:
 - **(A)** simultaneously
 - **B** the heavier one arriving earlier
 - © the lighter one arriving earlier
 - (D) cannot say, the information is insufficient
- **7.** A ball is released from the top of height *h* metre. It takes 10 s to reach the ground. Where is the ball at the time 5 s?
 - \triangle at (h/4) m from the ground

- B at (h/2)m from the ground
- © at (3h/4)m from the ground
- (D) depends upon the mass and volume of the ball
- **8.** The displacement x of a body varies with time t as

$$x = -\frac{2}{3}t^2 + 16t + 2$$

In what time the body comes to rest? *x* is measured in metre and *t* in second.

A 6s

(B) 12 s

 \bigcirc 18 s

 \bigcirc 20 s

9. The distance covered by a body is given by

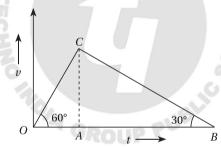
$$S = at + bt^2$$

The acceleration of the body is

 $\triangle \frac{a}{b}$

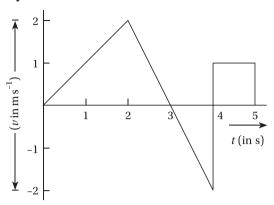
(B) 2h

- \bigcirc a+b
- (D) 3b
- **10**. The velocity-time graph of a body is shown in figure. The ratio of the ____ during the intervals OA and AB is_



- A average velocities, 1
- $\bigcirc B \frac{OA}{AB}, \frac{1}{4}$
- © average accelerations, same as distances covered
- \bigcirc distances covered, $\frac{1}{2}$
- **11**. A car accelerates from rest at a constant rate α for some time after which it decelerates at a constant rate β to come to a stop. If total time for the journey is t second, then the maximum velocity attained is
- (B) $\alpha + \beta$
- $\bigcirc \frac{\alpha+\beta}{3}$ $\bigcirc \frac{\alpha\beta}{\alpha+\beta}t$
- **12.** A body is thrown vertically upwards with a speed of 100 m s⁻¹. On the return journey, the speed in m s⁻¹ at the starting point will be
 - $\triangle 100 \,\mathrm{m\,s}^{-1}$
- **B** $9.8 \,\mathrm{m \, s}^{-1}$
- © $100 \times 9.8 \text{ m s}^{-1}$ © $\frac{100}{9.8} \text{ ms}^{-1}$

13. The velocity-time graph of a particle moving along a straight line is shown. The displacement of the body in 5 second is



- **(A)** 0.5 m
- **B** 1 m

© 2 m

© 3 m

14. Starting from rest, for rectilinear motion with uniform acceleration, the $S_{5 ext{th}}$: $S_{4 ext{th}}$ =

A 9/7

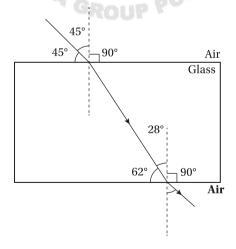
B 8/7

- © 11/6
- **1**1/7

15. Two stones are dropped down simultaneously from different heights. At the time of starting, the distance between the stones is 30 cm. After 2 second, what will be the distance between the two stones?

- **A** 10 cm
- **B** 5 cm
- © 20 cm
- **©** 30 cm

16. A ray of light is incident on a glass slab as shown in the figure below. The angle of refraction inside glass slab (when refraction takes place from air to glass) is



A 62°

B 45°

© 28°

© 30°

17. A particle starts from rest and attains a velocity 10m/s in 5s, then displacement of the particle is equal to (consider rectilinear motion of uniform acceleration)

- **A** 10m
- **®** 15m
- © 20m

© 25m

- 18. Starting from rest, a particle moves along a straight line with uniform acceleration of 3m/s² in the time interval of 2s. Then displacement of the particle during this period is
 - (A) 2m

(B) 4m

© 6m

- ① 5m
- 19. A particle travels first half of the distance (in m) with velocity u m/s and remaining half of the distance with velocity v m/s. Then the average speed during the period is
 - \triangle uv/(u+v)
- \bigcirc 2uv/(u+v)
- © (u+v)/2
- **②** √(u.v)
- 20. If two vectors of equal magnitude p are acting at a point and angle between the vectors is 120°, then magnitude of resultant vector is
 - (A) P
- (B) $P\sqrt{2}$
- © 2P

21.

Select the correct option for \vec{R} as $\vec{R} = \vec{A} + \vec{B}$











- 22. Regarding unit vector, select the correct option
 - A It has no unit

- B It has magnitude 1
- © Both (A) and (B) are correct

None of these

- **23.** If $\hat{u} = (\hat{i} + \hat{j} + \hat{k})N$ then \hat{u}

- **24.** If $\vec{A} = \hat{i} + \hat{j}$ and $\vec{B} = \hat{i} \hat{j}$ then $|\vec{A} \vec{B}| = \hat{i} + \hat{j}$
 - A 1 unit
- B 2 unit
- © 1.5 unit
- ② 3 unit
- **25.** If velocity of rain with respect to wind by $3(-\hat{i})$ m/s and velocity of wind with respect to ground be $4\hat{i}$ m/s, then velocity of rain with respect to ground is
 - \triangle $(4\hat{i}-3\hat{j})$ m/s

B $(4\hat{i}+3\hat{j})$ m/s

 $(-4\hat{i} + 3\hat{j})$ m/s

(a) $(-4\hat{i} - 3\hat{j})$ m/s

Chemistry

26.	10 g of hydrogen and 64 of oxygen were filled in a steel vessel and exploded. Amount owater produced in this reaction will be:					
	A 1 mole	® 2 moles	© 3 moles	② 4 moles		
27.	How many moles of atoms?	How many moles of magnesium phosphate, $\mathrm{Mg_3}(\mathrm{PO_4})_2$ will contain 0.25 mole of oxygen atoms?				
	(A) 0.02	B 3.125×10^{-2}	© 1.25×10^{-2}	$\bigcirc 2.5 \times 10^{-2}$		
28.	28. 2 g of mixture of CO and CO ₂ on reaction with excess $I_2 O_5$ produced 2.54 g of $I_2 O_5$ would be the mass % of CO ₂ in the original mixture? $5CO + I_2O_5 \rightarrow 5CO_2 + I_2 \cap 1$					
	[Atomic weight : C =	= 12, O = 16, I = 127				
	A 60	B 30	© 70	© 35		
29.		nd on analysis was fou e. What will be the em		arbon, 0.84% hydrogen substance?		
	[Atomic weight: $C = 12$, $H = 1$, $Cl = 35.5$]					
	\bigcirc CH ₂ Cl ₂	® CHCl₃	© CCl ₄	© CH ₃ Cl		
30.	An oxide of sulphur	contains 50 % S. what	will be its empirical fo	ormula?		
	[Atomic weight: $S = 32$, $O = 16$]					
	⊗ SO	® SO₂	© SO ₃	\bigcirc S_2O_3		
31.	$8 \mathrm{g} \mathrm{of} \mathrm{O}_2$ has the same number of molecules as:					
	A 7 g of CO	\blacksquare 11 g of CO_2	\bigcirc 7 g of N_2	All of these		
32.	. When 10 g of 90% pure lime stone is heated completely, the volume (in litres) of ${\rm CO_2}$ is liberated at STP is					
	A 22.4	B 2.24	© 20.16	© 2.016		
33.	How many gms of H	OH) ₂ ?				
	[Atomic weight: $Mg = 24$, $O = 16$, $H = 1$, $P = 31$]					
	$2H_3PO_4 + 3Mg(OH)_2 = Mg_3(PO_4)_2 + 6H_2O$					
	(A) 224 gm	® 112 gm	© 56 gm	© 75 gm		
34.						
	Mole fraction	_	Molarity			
	© Molality		All options are tru	ıe		

35.	$1.12\mathrm{LN_2}$ gas is ϵ	equal to how many ${\rm N_2}$ n	nolecules ? [A	vogadro number = 6.02×10^{23}]			
	(3.01×10^{22})	B $[3.01 \times 10^{21}]$	© [12.04 × 1	0^{22}]			
36.	23, $O = 16$, $Zn = 65$, $N = 14$						
	A ZnO	■ Na ₂ O	© MgO	\bigcirc N ₂ O			
37.	Percentage of oxygen in H_2SO_4 is $[S = 32, O = 16, H = 1]$						
	(A) 68.5%	B 65.3%	© 62.3%	© 67.4%			
38.	$200\mathrm{ml}$ 1 M HCl solution is added to $300\mathrm{ml}$ 0.2 M HCl solution. The final concentration of the solution will be						
	(A) 0.45 M	® 0.65 M	© 0.78 M	© 0.52 M			
39.			- 0_	acts with 25 gm HCl by following			
	the given equati	on $CaCO_3 + 2HCl \rightarrow CaCl$	$l_2 + CO_2 + H_2O$ (1)	$MW)_{CaCO_3} = 100 \& (MW)_{HCl} = 36$			
	♠ CaCO ₃ is limi	ting reagent & HCl is ex	cess reagent				
	\blacksquare HCl is limiting reagent & CaCO $_3$ is excess reagent						
	© Both CaCO ₃ and HCl are limiting reagents						
	Both CaCO ₃ and HCl are excess reagents						
40.				hen 1.22 gm KClO ₃ is strongly : K = 39, Cl = 36, O = 16]			
	(A) 0.168LO_2 at	STP & 0.74 gm KCl	® 0.335 L O	₂ at STP & 0.74 gm KCl			
	© $0.168 LO_2$ at	STP & 0.37 gm KCl	© 0.335 L O	₂ at STP & 0.37 gm KCl			
41.	1. Consider the reaction $N_2 + 3H_2 \rightarrow 2NH_3$. What mass of NH_3 will be produced when gm N_2 gas reacts completely with H_2 ? $[N = 14, H = 1]$						
	(A) 11.4 gm	B 10.2 gm	© 6.8 gm	17.4 gm			
42.	The correct option	on about 1 gm CaCO ₃ (1	MW = 100) is				
	(a) $3.01 \times 10^{22} \text{CaCO}_3$ molecules (b) $6.02 \times 10^{21} \text{CaCO}_3$ molecules (c) 0.1mole CaCO_3 molecules (d) $3.01 \times 10^{21} \text{CaCO}_3$ molecules						
43.	. What is the number of atoms in 20 gm $CaCO_3$ (MW = 100) Avogadro number = 6.02 > 10^{23} ?						
	(A) 6.02×10^{21}	B 6.02×10^{22}	© 6.02×10^2	© 6.02×10^{20}			
44.	gas is introduce	• -	r. If they are not	0 ml of pure and dry hydrogen reacting with each other thener?			

© 0.75 mole

© 0.075 mole

B 0.065 mole

(A) 0.65 mole

		[1]					
45.	Which of the following represents the highest number of mole value						
	[Cl = 35.5, N = 14, O = 16, Avagadro number = 6.02×10^{23}]?						
	\bigcirc 0.355 gm Cl ₂		B 1.204×10^{23} G	O_2 molecules			
	© 0.112 L N ₂ gas at S	TP	(a), (b), (c) al	l are equal values			
46.	2 gm N_2 reacts with 2	gm H_2 and forming N	NH_3 according to	the equation			
	$N_2 + 3H_2 \rightarrow 2NH_3$ Atomic weight: $N = 14$, $H = 1$						
	$oldsymbol{eta}$ N $_2$ is limiting reagent and H $_2$ is excess reagent						
$\textcircled{B}\ \text{N}_2$ is excess reagent and H_2 is limiting reagent							
	© Both N ₂ and H ₂ are	e limiting reagents					
	Description Both N ₂ and H ₂ are	e excess reagents					
47.	$1.7~\mathrm{gm~NH_3}$ reacts with	th 4 gm ${\rm O_2}$ according	to the reaction 41	$NH_3 + 5O_2 \rightarrow 4NO + 6H_2$	$_{2}$ O		
Atomic weight : $N = 14$, $H = 1$, $O = 16$							
Correct statements are							
	(I) NH ₃ is limiting rea	agent (II) O_2 is exc	cess reagent	(III) 3 gm NO is formed			
	(A) I, II, III	® I, II	© II, III	① I, III			
48.	3. 25 ml water is evaporated from 200 ml 0.2 N NaOH solution. What is the concentration of the solution?						
	⊗ 0.212 N	B 0.228 N	© 0.254 N	© 0.208 N			
49.	A solution is formed by adding $0.3~\mathrm{gm}$ urea (molar mass = 60) in $500~\mathrm{ml}$ water and fire volume is made $1250~\mathrm{ml}$. What is the final concentration of the solution?						
	(A) 0.004 M	B 0.008 M	© 0.002 M	© 0.016 M			
50.	Consider the given ed	quation Na ₂ CO ₃ + 2H	Cl → 2NaCl + CO ₂	$_2 + H_2O$			
	Correct products are when $0.53~\mathrm{gm}$ Na2CO $_3$ is reacting completely						
	[atomic weight : Na = 23, C = 12, O = 16, Avogadro number = 6.02×10^{23}]						
	\textcircled{A} 0.56 L CO ₂ at STP and 6.02×10^{21} water molecules						
	B 0.224 L CO_2 at STP and 3.01×10^{21} water molecules						
	© 0.112 L CO_2 at STP and 3.01×10^{21} water molecules						

 $\ \textcircled{\ 0}\ 0.112\ \textbf{L}\ \textbf{CO}_2$ at STP and $6.02\times 10^{21}\ \text{water molecules}$

Mathematics

51. If
$$\frac{x}{\cos\theta} = \frac{y}{\cos\left(\theta + \frac{2\pi}{3}\right)} = \frac{z}{\cos\left(\theta - \frac{2\pi}{3}\right)}$$
, then $x + y + z$ is equal to

 \bigcirc -1

(B) 1

© 0

- None of these
- **52.** If $\sin \theta_1 + \sin \theta_2 + \sin \theta_3 = 3$ then $\cos \theta_1 + \cos \theta_2 + \cos \theta_3$ is equal to
 - **(A)** 3

© 1

- (D) (0)
- **53.** If $\sin A + \sin B = a$ and $\cos A + \cos B = b$, then $\cos(A + B)$ is equal to
- (a) $\frac{2ab}{a^2+b^2}$ (b) $\frac{b^2-a^2}{a^2+b^2}$ (c) $\frac{a^2-b^2}{a^2+b^2}$
- **54.** The expression $3\left[\sin^4\left(\frac{3\pi}{2}-\alpha\right)+\sin^4(3\pi+\alpha)\right]-2\left[\sin^6\left(\frac{\pi}{2}+\alpha\right)+\sin^6(5\pi-\alpha)\right]$ is equal to

- \bigcirc $\sin 4\alpha + \cos 6\alpha$
- **55.** $3(\sin x \cos x)^4 + 6(\sin x + \cos x)^2 + 4(\sin^6 x + \cos^6 x)$ is equal to
 - A 11

B 12

© 13

- 14
- **56.** If $y = (1 + \tan A)(1 \tan B)$ where $A B = \frac{\pi}{4}$, then $(y + 1)^{y+1}$ is equal to

- **57.** If $\sin x + \sin^2 x = 1$, then the value of $\cos^{12} x + 3 \cos^{10} x + 3 \cos^8 x + \cos^6 x 2$ is equal to
 - **(A)** 0

© -1

②
2

- **58.** Value of expression $\sin^2 \frac{\pi}{6} + \cos^2 \frac{\pi}{4} \sec \frac{\pi}{3}$ is

© $-\frac{5}{4}$

◎ −1

- **59.** $\frac{1}{\sec \alpha \tan \alpha} + \frac{1}{\sec \alpha + \tan \alpha} =$
 - \triangle 2 tan α
- **B** $2 \sec \alpha$
- \bigcirc 2 sin α
- \bigcirc 2 cos α
- **60.** If a cos $\theta + b \sin \theta = 3$ and $a \sin \theta b \cos \theta = 4$, then value of $a^2 + b^2$ is

(B) 14

 \bigcirc 7

© 50

- **61.** If $\operatorname{cosec} A + \cot A = \frac{11}{2}$, then $\tan A$ is equal to

	[6]						
62.	If $\tan \alpha + \cot \alpha = a$, then the value of $\tan^4 \alpha + \cot^4 \alpha$ is equal to						
	$\bigcirc a^4 + 4a^2 + 2$	B $a^4 - 4a^2 + 2$	© $a^4 - 4a^2 - 2$	$\bigcirc a^4 + 4a^2 - 2$			
63.	If $\cos A = -\frac{5}{13}$ and A	I is not in third quadra	ant, then value of $\sin A$	- tan A is			
		B $\frac{96}{65}$	© $-\frac{216}{65}$	\bigcirc $\frac{216}{65}$			
64.	$\cos(540^{\circ} - \theta) - \sin(60^{\circ})$	630° – θ) is equal to					
	(A) 0	$\mathbf{B} 2 \cos \theta$	\bigcirc $2\sin\theta$	\bigcirc $\sin\theta - \cos\theta$			
65.	Value of $\frac{\sin 13^{\circ} \cos 47^{\circ} + \cos 13^{\circ} \sin 47^{\circ}}{\cos 72^{\circ} \cos 12^{\circ} + \sin 72^{\circ} \sin 12^{\circ}}$						
	A 1	® 0	© $\frac{1}{\sqrt{3}}$	(b) $\sqrt{3}$			
66.	If the sum of the root product, then $k=$	ots of the equation x^2 –	(k+6)x + 2(2k-1) = 0	is equal to half of their			
	A 6	® 7	© 5	© 1			
67.	The quadratic equat	tion where one root is	$3+2\sqrt{3}$ is				
	$ x^2 - 6x - 3 = 0 $		© $x^2 + 6x + 3 = 0$				
68.	If $n(A \times B) = 45$, then $n(A)$ cannot be						
	A 15	B 17	© 5	© 9			
69.	Let <i>R</i> be a relation from a set <i>A</i> to a set <i>B</i> , then						
70.	If $f(x) = x^3 - (1/x^3)$, then $f(x) + f(1/x)$ is equal to						
	(A) $2x^3$	B $2/x^3$	© 0	D 1			
71.	Let $x = \sin 1^\circ$, then the	ne value of the express	ion				
	$\frac{1}{\cos 0^{\circ}.\cos 1^{\circ}} + \frac{1}{\cos 1^{\circ}.\cos 2^{\circ}} + \frac{1}{\cos 2^{\circ}.\cos 3^{\circ}} + \dots + \frac{1}{\cos 44^{\circ}.\cos 45^{\circ}} \text{ is equal to}$						
	(A) <i>x</i>	B 1/x	\bigcirc $\sqrt{2}/x$				

© 1/6

(A) 0

72. If $5 \tan \theta = 4$, then $\frac{5 \sin \theta - 3 \cos \theta}{5 \sin \theta + 2 \cos \theta}$ is equal to

© 6

- 73. If $\frac{\sin(x+y)}{\sin(x-y)} = \frac{a+b}{a-b}$, then $\frac{\tan x}{\tan y}$ is equal to

(C) ah

None of these

- **74.** If $\tan \theta + \sin \theta = m$ and $\tan \theta \sin \theta = n$, then
- (a) $m^2 n^2 = 4mn$ (b) $m^2 + n^2 = 4mn$ (c) $m^2 n^2 = m^2 + n^2$ (d) $m^2 n^2 = 4\sqrt{mn}$
- **75.** If $\sin x + \csc x = 2$, then $\sin^n x + \csc^n x$ is equal to
 - **A** 2

- (c) 2^{n-1}
- ① 2^{n-2}

Biology

- **76.** A group of animals having marsupium is
 - (A) Monotremata
- **(B)** Eutheria
- © Metatheria
- Pantotheria

- 77. Which of the following is true of Aves?
 - A They are poikilotherms and have a three chambered heart
 - Tiny pebbles eaten by some birds are used in crushing
 - © They have 10 pairs of cranial nerves
 - All of the above
- **78.** The study of snakes is called
 - A Herpetology
- B Ophiology
 © Saurology
- Ornithology
- 79. Connecting link between chordates and non chordates is
 - (A) Peripatus
- **B** Balanoglossus
- © Sphenodon
- **©** Tachyglossus

- **80.** Which one is not correct?
 - A Humans-Ureotelic

Birds-Uricotelic

© Lizards-Uricotelic

- Whale-Ammonotelic
- 81. Which of the following is the generic name of an extinct ancient lizard bird?
 - **A** Archaeopteryx
- **B** Bulbulcus
- © Dodo
- None of the above
- 82. In echolocation, the animal that produces high frequency sounds is
 - A Monkey
- B Butterfly
- © Squirrel
- © Bat
- **83.** Retrogressive metamorphosis is shown by animals belonging to—
 - A Class Mammalia

- B Subphylum Vertebrata
- © Subphylum Cephalochordata
- Subphylum Urochordata

84.	'Wheel organ' of Cephalochordates help in—							
	A Excretion	$oldsymbol{\mathbb{B}}$	Osmoregulation	©	Ingestion	(D)	Respiration	
85.	Brood pouch occur	s in-	_					
	(A) Male <i>Hippocamp</i>	ous		$oldsymbol{\mathbb{B}}$	Female Hippocar	три	S	
	© Male Arius			(D)	Female Arius			
86.	Development of gonads and/or production of young ones by larval forms is called—							
	A Retrogressive me	etan	norphosis	lacksquare	Paedogenesis			
	© Predaceous			(D)	None			
87.	The blood of which animal has more RBCs per cubic mm of blood than in any other animal?							
	A Man	B	Amphibians	©	Snakes	(D)	Birds	
88.	Pecten of birds help	in ₋	of eyeball	l .				
	A Cleaning			B	Nutrition			
	© Hydration			(D)	Maintenance of s	shap	e	
89.	Name the teeth of e	lepł	nants which consta	intly	grow throughout	life		
	A Incisors	lacksquare	Canines	©	Both (a) and (B)	(D)	Molars	
90.	Choose the correct statement—							
A Panthera leo is the National Animal of IndiaB Marsupials are found mainly in Africa								
	© Seals have dense hair on body for heat insulation							
	Retina of owls co	nta	in only rods					
91.	Which one is called	l a li	ving fossil?					
	♠ Ginkgo	lacksquare	Cycas	©	Metasequoia	(D)	All of the above	
92.	Which of the following are called vascular cryptogams?							
	A Pteridophytes	B	Bryophytes	©	Gymnosperms	(D)	Algae	
93.	A binomial nomenclature consists of—							
	Generic name are	nd P	hyla	f B	Class and Phyla			
	© Generic name and specific epithet			(D)	Phyla and Kingdom			
94.	Mushrooms belong	to-	_					
	A Phycomycetes			f B	Ascomycetes			
	© Basidiomycetes			(D)	Deuteromycetes			
95.	Water vascular system is observed in—							
	Coelenterates	B	Nematodes	©	Echinoderms	(D)	Molluscs	

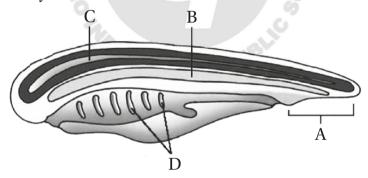
- 96. What is common to Amphibia, Reptilia, Aves and Mammals?
 - A They are all warm blooded
- B They are all viviparous

© They are all tetrapods

- ① They all use their forelimbs for walking
- **97.** Why are pneumatic bones found in birds?
 - **(A)** To give strength to the body
 - **®** To help the birds lay eggs
 - © To maintain constant body temperature
 - ① To make the body light
- 98. Reptiles have—
 - Wet and glandular skin
 - © Feathery skin

- B Moist and spotted skin
- Dry and cornified skin
- **99**. Select the pair of flightless birds from the list given below:
 - I. Corvus
- II. Columba
- III. Struthio
- IV. Aptenodytes

- A I and IV
- B II and III
- © I and II
- © III and IV
- **100.** The following is a schematic diagram of a chordate's embryo. The parts labelled A, B, C and D are respectively—



- A—Dorsal nerve chord
 - Doisar Herve chora
- **B** A—Post anal tail
 - C—Dorsal nerve chord

C—Pharyngeal gill slits

- © A—Pharyngeal gill slits
 - C—Dorsal nerve chord
- © A—Pharyngeal gill slits
 - C—Post anal tail

- B—Notchord
- D—Post anal tail
- B—Notochord
- D—Pharyngeal gill slits
- **B**—Notochord
- D—Post anal tail
- **B**—Notochord
- D—Dorsal nerve chord

Space For Rough Works



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