

Monthly Progressive Test

Class: XI

Subject: PCMB



Test Booklet No.: MPT04 Test Date: 2 4 0 7 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 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 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.	For a projectile with initial velocity $\vec{u} = (4\hat{i} + 3\hat{j})$ m/s. The range is $(g = 10\text{m/s}^2)$						
	(A) 2.4 m	lacksquare	4.8 m	©	6 m	(D)	2 m
2.	A ball is thrown from At what distance wit		_		, ,	45° v	with the horizontal.
	(A) 10.4 m	lacksquare	12 m	©	14.4 m	(D)	none of the above
3.	The range of a proje at an angle of 45°, its			of 15	5° is 50m. If it is fire	ed w	vith the same speed
	(A) 100 m	lacksquare	50 m	©	37 m	(D)	25 m
4.	Two projectiles A ar 45° for the projectile				ngle of projection	15° 1	for projectile A and
	$ R_A < R_B $	lacksquare	$R_A = R_B$	©	$R_A > R_B$	(D)	Insufficient data
5.	A projectile is give trajectory	n ir	nitial velocity of ($\overline{i} + 2$	\overline{j})m/s, g = 10m/s	² . 1	The equation of its
	(A) $y = 2x - 5x^2$	$^{f B}$	$4y = 2y - 5x^2$	©	$4y = 2x - 5x^2$	(D)	$y = x - 5x^2$
6.	A body is projected the velocity at the m		-	's at	an angle of 60° wit	h th	ne horozontal. Then
	(A) 10 m/s	lacksquare	12 m/s	©	20 m/s	(D)	5 m/s
7.	A man can throw a s	ston	e to a maximum d	ista	nce of 125m. Then	tim	e of flight is
	(A) 10s	B	8s	©	4s	(D)	5s
8.	A vehicle covers the first half of the distance between two places at a speed of 40 km h^{-1} and the other half at 60 km h^{-1} . The average speed of the car is						
	\triangle 40 km h ⁻¹	lacksquare	$60 \mathrm{km} \mathrm{h}^{-1}$	©	$50 \mathrm{km} \mathrm{h}^{-1}$	(D)	$48 \mathrm{km}\mathrm{h}^{-1}$
9.	A person walks along a straight road for the first half time with velocity v_1 and the second half time with velocity v_2 . Then, the mean velocity V is given by						
		B	$V = \frac{v_1 + v_2}{2}$	©	$V = \sqrt{\nu_1 \nu_2}$	(D)	$\overrightarrow{v_1} + \overrightarrow{v_2}$
10.	To make the longest	Jur	np, an athelete is a	dvi	sed to make an ang	gle o	of
	(A) 0° with ground				45° with ground		
	© 60° with ground			(D)	89.9° with ground		

11. If the angle of projection of a projectile is 30°, then how many times the horizontal range

12. A plane is traveling eastward at a speed of 500 km h^{-1} . But a 90 km h^{-1} wind is blowing

southward. What is the speed of the plane relative to the ground?

© 3√4

① $4\sqrt{3}$

is larger than the maximum height?

(A) 2

B 3

	A	$508 km h^{-1}$	B $200 \text{km} \text{h}^{-1}$	©	$400 \mathrm{km} \mathrm{h}^{-1}$	\bigcirc 150 km h ⁻¹				
A	Assertion and Reason									
	Directions: Read the following questions and choose any one of the following four responses.									
		These consist of two statements. Assertion(A) and Reason (R). Answer these questions selecting the appropriate option given below.								
	A. Both A and R are true and R is the correct explanation of A									
	B. Both A and R true and R is not the correct explanation of A									
	C.	c . A is true but R is false.								
	D.	A is false but R is	true.							
13.	 Assertion: Elevation angle (€) of the projectile at its highest point as seen from the point of projection is tan€ = (1/2). Reason: The projectile is fired at an angle of of 45° with the horizontal. 									
	A	A	B B	©	C	© D				
14.	Assertion: It is given that a particle has speed $7\sqrt{2}$ unit after 10s from start. Reason: The particle has initial velocity $(3i + 4j)$ unit and acceleration $(0.1i + 0.3j)$ unit after 10 s from start.									
	(A)	A	B B	©	С	D D				
Case based (Q 15) A particle of mass m is projected with velocity V making an angle 45° with the horizontal. When the particle lands on the level ground,										
15 . ′	The	magnitude of the	change in vertical co	mp	onent of velocity is	8				
	A	$\sqrt{3}V$	B V/2	©	$\sqrt{2}V$	© 2V				
1 6.	Starting from rest, for rectilinear motion with uniform acceleration, the $S_{5\text{th}}$: $S_{4\text{th}}$ =									
	(A)	9/7	B 8/7	©	11/6	1 1/7				
17.	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				
18.	Αŀ	oody is thrown ver	rtically upwards with	a s	peed of 100 m s^{-1} .	On the return journey,				
Tach	no I	ndia Group • DN-25	- Caston V - Vallesta							

the speed in m s ⁻¹	at the starting point	will be
	at the other thing point	

 $\triangle 100 \,\mathrm{m \, s}^{-1}$

 \bullet 9.8 m s⁻¹

© $100 \times 9.8 \text{ m s}^{-1}$ © $\frac{100}{9.8} \text{ ms}^{-1}$

19. The distance covered by a body is given by

$$S = at + bt^2$$

The acceleration of the body is

 \bigcirc a+b

① 3b

20. If velocity of rain with respect to wind by $3(-\hat{j})$ 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

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

21. A constant force 20N is acted on a mass 2kg which is at rest on a smooth floor. The magnitude of acceleration produced is

A 10m/s^2

(B) 2 m/s^2

 \bigcirc 4 m/s²

 $\bigcirc 6 \text{ m/s}^2$

22. If $F = (i + \hat{j})N$ the magnitude of force is

(A) 2N

(B) $\sqrt{2}N$

© 1N

(D) 3N

23. If $(3\hat{i}+4\hat{j})$ force acts on a mass of 1 kg, then magnitude of acceleration is

 \triangle 2m/s²

 \bigcirc 1 m/s²

© $5 \,\mathrm{m/s^2}$

 \bigcirc 4 m/s²

24. If change in velocity is 3 m/s, then change in linear momentum of mass 1 kg is

 \triangle 3 kg m/s

B 2 kg m/s **C** 1 kg m/s

 \bigcirc 4 kg m/s

25. The Resultant force of $(2\hat{i} + 3\hat{j})N$ and (i + j + k)N is

(A) i + 2k + 3k

None of these

Chemistry

26. Angular momentum of an electron in an orbital is given by :

 \bigcirc $n\frac{h}{2}$

None of these

27. Which one of the following is the set of correct quantum numbers of an electron in 3d orbital?

(A) n = 3, l = 0, m = 0, $s = -\frac{1}{2}$

(B) n = 2, l = 3, m = 0, $s = +\frac{1}{2}$

© n = 3, l = 1, m = 0, $s = -\frac{1}{2}$

① $n=3, l=2, m=1, s=+\frac{1}{2}$

- **28.** The total spin resulting from a d^7 configuration is:
 - \triangle $\pm \frac{1}{2}$

B ±2

© ±1

- **29**. The electronegativity order of O, F, Cl and Br is:
 - \triangle F > O > Cl > Br
- (B) F > Cl < Br > O
- \bigcirc Br > Cl > F > O
- \bigcirc F < Cl < Br < O
- **30.** Pauling's equation for determining the electronegativity of an element, is X_A , X_B = electronegativity values of elements A and B

 Δ = represents polarity of A – B bond

(A) $X_A - X_B = 0.208\sqrt{\Delta}$

B $X_A + X_B = 0.208\sqrt{\Delta}$

 $X_A - X_B = 0.208\Delta^2$

Assertion - Reason Questions (31-32)

OPTION A: Assertion and reason both are correct and reason is the correct explanation of assertion

OPTION B : Assertion and reason both are correct and reason is not the correct explanation of assertion

OPTION C: Assertion is correct but reason is wrong

OPTION D : Assertion is wrong but reason is correct

31. **Assertion :** Ionic character of NaF is higher than NaCl

Reason: Melting point of NaF is higher than NaCl

32. Assertion : NaI shows more water solubility than NaCl at a constant temperature **Reason :** Higher the radius of the anion, extent of hydration is higher

Directions (33-35): Statement based Questions: Select correct options

Option A: Both statement I and II are correct

Option B: Statement I is correct but statement II is wrong

Option C: Statement I is wrong but statement II is correct

Option D: Both statements I and II are wrong

33. Statement I : In case of photoelectric effect, kinetic energy of the released electrons increase with increase of frequency of the used radiation

Statement II: In case of photoelectric effect, higher the energy of the photon striking the metal surface, higher is transfer of energy to the electrons

34. Statement I : Velocity of an electron in 4th Bohr orbit is lower than that for an electron in 2nd Bohr orbit

Statement II : Velocity of an electron in 1st Bohr orbit of H-atom (Z = 1) is lower than that for an electron in 1st Bohr orbit of Li^{2+} ion (Z = 3)

35. Statement I : Among 4f and 5d orbitals, 4f fills earlier than 5d

Statement II: Total number of electrons in 3d orbital of ₂₅Mn³⁺ ion is 3

In 1913, Niels Bohr proposed an atomic model which was based upon quantum physics. Bohr's theory was applicable for one electron system only and electron revolves around the nucleus in some circular paths having fixed radius and energy. These circular paths are termed as orbits and the angular momentum is $m_e v r = n. \frac{h}{2\pi}$. Energy of an orbit is $-13.6 \, \frac{Z^2}{n^2} \, eV$ and radius of an orbit is $\frac{0.529.n^2}{7} \, \mathring{A}$.

- **36.** Energy of which is equal to -54.4 eV?
 - \triangle 2nd Bohr orbit of Li²⁺ (Z = 3)
- **8** 2nd Bohr orbit of Be $^{3+}$ (Z = 4)
- © 3rd Bohr orbit of Li^{2+} (Z = 3)
- **1** 4th Bohr orbit of Be³⁺ (Z = 4)
- **37.** Correct value of radius of 4th orbit of Be³⁺ ion (Z = 4)?
 - **A** 1.116Å
- **B** 2.016Å
- © 1.008Å
- **②** 2.116Å
- **38.** The potential energy of an electron in the first Bohr orbit of hydrogen atom is zero, the total energy of the electronin second Bohr orbit is
 - **♠** −30.6 eV
- \blacksquare + 30.6 eV
- © -23.8 eV
- ① + 23.8 eV
- **39.** The magnetic moment of M^{x+} (atomic number = 25) is $\sqrt{15}$ BM. The number of unpaired electrons and the value of 'x' respectively are
 - **(A)** 4, 3

B 3, 4

© 3, 2

- **⑤** 5, 2
- **40.** A photon of frequency v causes photoelectric emission from a surface with threshold frequency v_0 . The de Broglie wavelength (λ) of the photo-electron emitted is
 - $\triangle \Delta n = \frac{h}{2m\lambda}$

- **41.** 2 gm of mixture of CO and CO_2 on reaction with excess I_2O_5 produces 2.54 gm of I_2 . What would be the mass percentage of CO_2 in the original mixture?

 $5CO + I_2O_5 \longrightarrow I_2 \uparrow + 5CO_2 \ [C = 12, O = 16, I = 127]$

A 60

B 30

© 70

② 35

42.	200 ml 1M HCl solu of the solution will		lded to 300 n	ıl 0.	2M HCl solut	ion. Th	ne final co	ncentration
	(A) 0.45M	® 0.65	M	©	0.78M	ı	0 0.52M	
43.	What is the numbe 10^{23} ?	r of atom	s in 20 gm Ca	aCC	$O_3 (MW = 100)$) Avog	adro num	$ber = 6.02 \times$
	$\triangle 6.02 \times 10^{21}$	B 6.02	$\times 10^{22}$	©	6.02×10^{23}	1	© 6.02 × 1	10^{20}
44.	1.7 gm NH ₃ reacts v	vith 4 gm	O ₂ according	g to	the reaction 4	NH ₃ +	$5O_2 \rightarrow 4N$	O + 6H ₂ O
Atomic weight : $N = 14$, $H = 1$, $O = 16$								
	Correct statements	are						
	(I) NH ₃ is limiting r	eagent	(II) O_2 is ex	ces	s reagent	(III) 3	gm NO is	formed
	(A) I, II, III	® I, II		©	II, III	1	D I, III	
45.	A solution is formed volume is made 125	•	0 0			-		er and final
	(A) 0.004 M	B 0.00	8 M	©	0.002 M	ı	© 0.016 N	⁄I
46.	Total number of de	e-Broglie	wave presen	t wl	nen an electro	on rev	olves in th	ne 5th Bohr
	A 5	B 10		©	15		D 25	
47.	A photon of wave le one photon is red w		60 nm. The wa	ave i		cond p -1		
48.	$H\alpha$ line of Balmer s	eries is 65	500 Å. The wa	ve l	ength of H γ is	}		
		B 4298			7800Å		3 800Å	
49.	A node is a point at	which pr	obability of fi	ndi	ng an electror	n is		
	(A) > 99%	B 0%		©	50%		D 10%	
50.	A 'd' orbital can acc	ommoda	ite maximum	of_	ele	ectrons	S.	
	(A) 10	B 2		©	6		D 14	
•—			- Mathe	m	atics —			•
	h							
51 .	If $\tan x = \frac{b}{a}$, then th	e value of	$f a \cos 2x + b$	sin 2	2x is			

 \odot a+b

(D) *b*

 \triangle a

B a-b

52.	The value of $\sum_{n=1}^{13}$	$\left(i^n+i^{n+1}\right)$	where $i = \sqrt{-1}$	equals
	n=	1 ` ′		

 \triangle i

(B) i-1

 \bigcirc i

- (D) (I)
- The smallest positive integer for which $(1+i)^{2n} = (1-i)^{2n}$ is
 - **(A)** 4

- 12
- **54.** The set of admissible values of x such that $\frac{2x+3}{2x-9} < 0$ is
 - \bigcirc $\left(-\infty, -\frac{3}{2}\right) \cup \left(\frac{9}{2}, \infty\right)$

 $\bigcirc (-\infty,0) \cup \left(\frac{9}{2},\infty\right)$

 $\bigcirc \left(-\frac{3}{2},0\right)$

- $\bigcirc \left(-\frac{3}{2},\frac{9}{2}\right)$
- **55.** If $3 \le 3t 18 \le 18$, then which one of the following is true?
 - **(A)** $15 \le 2t + 1 \le 20$

(B) $8 \le t < 12$

© $8 \le t + 1 \le 13$

- ① $21 \le 3t \le 24$
- 56. The number of different arrangements (permutations) of the letters of the word 'Banana' is
 - A 40

B 120

 \bigcirc 60

- © 50
- 57. A servant has to post 5 letters and there are 4 letter boxes. In how many ways can he post the letters
 - $\bigcirc 5P_{\perp}$

B $\frac{5!}{4!}$

 $\bigcirc 5^4$

(D) 4⁵

- **58.** If $\cos\theta = \frac{1}{2} \left(a + \frac{1}{a} \right)$ then $\cos 3\theta$ in terms of 'a' is
 - (a) $\frac{1}{4} \left(a^3 + \frac{1}{a^3} \right)$ (b) $\frac{1}{2} \left(a^3 + \frac{1}{a^3} \right)$ (c) $4 \left(a^3 + \frac{1}{a^3} \right)$ (d) $a^3 + \frac{1}{a^3}$

- **59.** If (2+i)(2+2i)(2+3i)...(2+9i) = x+iy, then 5.8.13.... 85 =
 - $\triangle x^2 + v^2$
- **(B)** $x^2 v^2$
- (c) $(x^2 + v^2)^2$
- 60. In how many ways can 5 boys and 5 girls stand in a row so that boys and girls are alternate?
 - (A) $2(5!)^2$
- **B** $5! \times 4!$
- © $5! \times 6!$
- $\bigcirc 6 \times 5!$

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):
$$\left(\frac{\cos A + \cos B}{\sin A - \sin B}\right)^n + \left(\frac{\sin A + \sin B}{\cos A - \cos B}\right)^n = 0$$
 if n is odd.

Reason (R):
$$\frac{\cos A + \cos B}{\sin A - \sin B} = \cot \left(\frac{A - B}{2}\right)$$

(A) a

© c

(D) d

62. Assertion (A): The solution set of the equation $\frac{x-1}{x-2} > 2$ is (2, 3)

Reason (R): $\frac{a}{b} < 0$ if $(a < 0, b > 0) \cup (a > 0, b < 0)$ **(a)** a **(b)** b **(c)** c

(**D**) d

Case study based Questions (63 - 65):

There are 10 girls and 8 boys in a class room including Mr Ravi, Ms Rani and Ms Radha. A list of speakers consisting of 8 girls and 6 boys has to be prepared. Mr Ravi refuses to speak if Ms Rani is a speaker. Ms Rani refuses to speak if Ms Radha is a speaker.

63. Calculate the number of ways when Ms Radha is a speaker

A 56

B 28

© 224

© 308

64. Calculate the number of ways when Radha is not a speaker but Rani is a speaker

A 56

B 28

© 224

© 308

65. Calculate the number of ways when both Radha and Rani are not the speakers

A 56

B 28

© 224

(D) 38

66. $\frac{1}{1+x^{a-b}} + \frac{1}{1+x^{b-a}}$ is equal to

(A) $x^{2(a-b)}$

 \bigcirc χ^{a-b}

 $\bigcirc x^{b-a}$

- **67.** Graph drawn from the equation $y = x^2 3x 4$ will be
 - (A) Circle

B Parabola

© Straight Line

Hyperbola

- **68.** The range of $f(x) = \frac{x}{1+x^2}$ is
- **69.** If *P* is the set of all parallelograms and *T* is the set of all trapeziums, then $P \cap T$ is
 - \triangle P

(B) T

© 0

- None of these
- **70.** If $y = (1 + \tan A)(1 \tan B)$ where $A B = \frac{\pi}{4}$, then $(y + 1)^{y+1}$ is equal to
 - (A) 9

© 27

© 81

Case study based Questions (71 - 73):

A company is organizing a conference and needs to select speakers and arrange them in a specific order. There are 10 potential speakers. The conference has 4 speaking slots available.

On the basis of the above information answer the following questions:

- 71. How many ways can the company select 4 speakers out of the 10?
 - \bigcirc 210

- **B** 5040
- © 10000
- 72. If the order in which the speakers present matters, how many different arrangement of 4 speakers can the company make?
 - A) 210

- **(B)** 5040
- © 1000
- \bigcirc 4¹⁰
- 73. If X, Y and Z are respectively the 1st, 2nd and 3rd speakers then in how many ways we can select 4th speaker?
 - **(A)** 10 ways
- **B** 7! ways
- © 7 ways
- **1**0! ways

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 modulus of Z = x + iy is always non-negative.

Reason (R): $|Z| = \sqrt{x^2 + y^2}$

A a

B b

© c

© d

75. Assertion (A): If z = 3 + 4i, then $z\bar{z} = 25$

Reason (R): $z\overline{z} = |z|^2$

A a

B b

© c

(D) d

Biology

- 76. Insectivorous plants such as pitcher plant and venus fly trap, have
 - (A) Modified leaf
- Modified stem
- © Modified root
- All of the above

- 77. Choose the correct statement for mango
 - A Epicarp is thin

- Mesocarp is fleshy and edible
- © Endocarp is strong and hard
- All of these

- 78. Fabaceae
 - Was earlier called Papilionoideae
 - B Was a sub family of Leguminosae
 - © Is distri buted all over the world
 - All of the above
- 79. Primary meristem is
 - Apical meristem
 - **B** Intercalary meristem
 - © Root apical meristem and shoot apical meristem
 - (2) Both (1) and (2)
- **80.** Cambium is present in between
 - A Phloem and xylem

- B Permanent mature cells
- © Collenchyma and sclerenchyma
- © Collenchyma and parenchyma
- **81.** Compared to those of humans, the erythrocytes in frog are
 - (A) Without nucleus but with haemoglobin (B) Nucleated and with haemoglobin
 - © Very much smaller and fewer
- Nucleated and without haemoglobin

- **82.** In frog, the surface of attachment of tongue is
 - A Pterygoid
- **B** Hyoid apparatus **C** Parasphenoid
- Palatine

Question No. 8 to 10 consist of two statements- Assertion (A) and Reason (R). Answer these questions selecting the appropriate option from the list given below.

- A. Both A and R are true and R is the correct explanation of A.
- B. Both A and R are true and R is not the correct explanation of A.
- C. A is true but R is false.
- D. A is false but R is true.
- **83**. **Assertion:** Prop roots of banyan are adventitious roots.

Reason: These develop from the nodes and internodes of the stem.

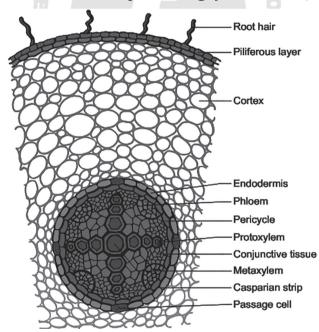
84. **Assertion:** Quiescent centre is found in the centre of the root apex.

Reason: It consists of actively dividing cells.

85. Assertion: The alimentary canal of the frog is short.

Reason: Frogs are carnivores.

Study the given diagram and answer the following questions (Questions 11 to 15)



- **86.** The diagram given above shows TS of -
 - A Monocot root
- Dicot root
- © Monocot stem
- © Dicot stem

- **87.** Cortex is the region found between the
 - Epidermis and stele
 - © Endodermis and pith

- B Pericycle and endodermis
- © Endodermis and vascular bundle

88.	Water impermeable Casparian strip is A Lignin Conjunctive tissu		vaxy material seci	B	d by endodermal Suberin Pectin	. ce	lls in the form of	
89.	The next layer to endodermis is a layer of thick walled parenchymatous cells , called							
	A Casparian strips	B	Radial bundles	©	Pericycle	(D)	Pith	
90.	Stele consists of—							
	Pericycle and pitlPericycle, vascula		rand and pith		Pericycle and vase Vascular strand a			
91.	Water vascular syste	m i	s observed in -					
	Coelenterates	lack	Nematodes	©	Echinoderms	(D)	Molluscs	
92.	Which of the followi	ng a	are called vascular	cry	ptogams?			
	A Pteridophytes	lacksquare	Bryophytes	©	Gymnosperms	(D)	Algae	
93.	Red tides in the sea are caused by							
	Dinoflagellates	lacksquare	Euglenoids	©	Slime moulds	(D)	Protozoans	
94.	Mushrooms belong to—							
	A Phycomycetes	lacksquare	Ascomycetes	©	Basidiomycetes	(Deuteromycetes	
95. The class consisting of the first jawless fishes, all of which are extinct no						t now is—		
	Ostracodermi	lacksquare	Cyclostomata	©	Chondrichthyes	(D)	Osteichthyes	
96.	96. The mature seeds of plants, like peas and gram, have no endosperm because						n because	
	(a) These plants are in the second of the se							
	B There is no doubleC Endosperm is no							
	© Endosperm is no			oing	g embryo during se	eed	development	
97.	Which of the followi				•		1	
	A Trifolium		Indigofera		Lupin	(D)	Cassia	
98.	A conjoint and open		5 5		•	isve	erse section of	
	Monocot root	B	Monocot stem	©	Dicot root	(D)	Dicot stem	
99.	Water containing ca	viti	es in vascular bund	lles	are found in—			
	Sunflower	B	Maize	©	Cycas	(D)	Pinus	
100.	Bidder's canal is for	ınd	in—					
	A Kidney	B	Testes	©	Urinary bladder	(D)	Cloaca	

Space For Rough Works



Space For Rough Works

