

# **Monthly Progressive Test**

Class: X (G)

Subject: PCMB



Test Booklet No.: MPT04(G) Test Date: 2 4 0 7 2 0 2 4

Time: 180 mins Full Marks: 200

#### Important Instructions:

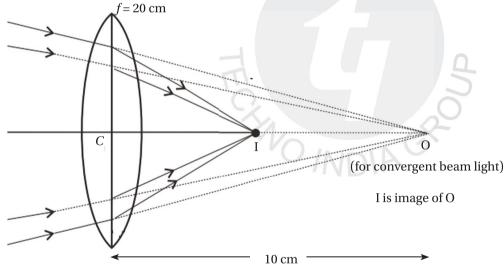
- 1. The Test is of 180 mins duration and the Test Booklet contains 100 multiple choice questions of single correct option only. There are four sections with four subjects. You have to attempt all 100 questions (Candidates are advised to read all 100 questions). Questions 1 to 25 contain Physics, Questions 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 MPT04(G)24072024.
- 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 image of a distant window is formed at a distance of 20 cm from a convex lens, then the focal length of this convex lens will be
  - **A** 15 cm
- **B** 30 cm
- © 25 cm
- © 20 cm
- 2. A convex lens has a focal length of 30 cm. Where should an object be placed infront of this convex lens so as to obtain a real, inverted, same size (of object) image
  - **A** 40 cm
- **B** 60 cm
- © 30 cm
- ① 50 cm
- An object is placed infront of convex lens of focal length 15 cm. In order to obtain a virtual magnified image, the object distance u =
  - **A** 10 cm
- **B** 15 cm
- © 20 cm
- © 25 cm
- 4. A lens of focal length 12 cm forms an erect image three times the size of the object. The distance between object and image is
  - **A** 8 cm
- **B** 24 cm
- © 20 cm
- 16 cm

5.



Then CI =

- **A** 5 cm
- **B** 6.67 cm
- © 8 cm
- © 5.5 cm
- **6.** For a convex lens of focal length 20 cm, if the image is formed at 20 cm, then u =
  - (A) infinity
- B 10 cm
- © 20 cm
- **©** 40 cm

- 7. If  $V_A = 10$  volt and  $V_B = 6$  volt, then  $V_A V_B =$ 
  - A 2 volt
- B 4 volt
- © 3 volt
- 1 volt

- **8.** The material of lens is
  - A Transparent
- **B** Non transparent **©** Opaque
- None of these

9.	Lens is bounded by				
	<b>(A)</b> 3 surfaces		B	2 surfaces	
	© Difficult to say		<b>(D)</b>	None of these	
10.	Double convex lens	has			
	♠ Two convex surfa	ices	B	Two concave surf	faces
	© Two plane surfac	es	<b>(D)</b>	None of these	
11.	A plano-convex lens	shas			
	♠ Two concave surface	faces	B	One concave-one	e convex
	© One plane-one co	onvex	<b>(D)</b>	Two plane surfac	es
12.	Convex lens is also k	cnown as			
	A Converging lens	B Diverging lens	©	Scattering lens	Astigmatic lens
Asse	rtion Reason Based	<b>Questions (13 – 14)</b>			
Di	rections: In the following				n (A) is followed by a
	) Both assertion (A) a rtion (A).	nd reason (R) are true	e an	d reason (R) is the	e correct explanation of
	) Both assertion (A) a sertion (A).	nd reason (R) are true	bu	t reason (R) is not	the correct explanation
		but reason (R) is false e and reason (R) is fals			
13.	Assertion: A concav	re lens is also called a	dive	erging lens.	
	Reason: A parallel b	eam of light incident	on a	a concave lens dive	erges on the other side.
	A A	<b>B</b> B	©	C	<b>D</b> D
<b>14</b> .	<b>Assertion:</b> The power	er of a convex lens is p	osi	tive.	
	Reason: The power	of a concave lens is ne	egat	ive.	
	A A	<b>B</b> B	©	C	<b>(D)</b> D
Case	based Questions (Q	<b>).</b> 15)			
		~ ~			use a magnifying glass.
гасе	the lens towards sun	. take a siiiaii diock ol	ιwC	ou and place it cic	ose to the lens such that

the lens is between the sun and the block. At one stage, a very small, bright image will be formed on the block. The distance between the lens and the block in this position is the focal

length of the convex lens.

This method doesn't work for concave lens. A concave lens forms a virtual image which cannot be captured on a screen such as our wooden block.

Other methods are used to find its focal length.

		Ü					
<b>1</b> 5.	The nature of image	formed by concave le	ns				
	A Real	B Virtual	©	May be Real	<b>(D)</b>	None of these	
16.	•	I the reflected ray from ngle of incidence be $x^{c}$		-	nutı	ually perpendicular	
	<b>A</b> 20°	<b>B</b> 15°	©	35°	<b>(D)</b>	25°	
<b>17</b> .	· ·	ont of a plane mirror fi f the man from plane 1		· ·	anc	ee 4 m from himself.	
	<b>A</b> 1 m	<b>B</b> 2 m	©	2.5 m	<b>(D)</b>	1.5 m	
18.	If $R$ is the radius of $C$	curvature of a spherica	l m	irror and $f$ is its foo	al le	ength, then:	
		$\mathbb{B}  R = \frac{f}{2}$	©	R = 3f	<b>(</b>	R = 2f	
19.	A ray of light passes from glass into air. The angle of refraction will be						
	A Equal to the angle			Greater than the	ang	le of incidence	
	© Smaller than the	angle of incidence	<b>(D)</b>	45°			
20.	•	raveling in water ente					
	(A) Is refracted toward	rds the normal	B	Is refracted away	fror	n the normal	
	© Does not get refra			Is reflected along			
21.	If potential difference	ce across a resistor 2 o	hm	is 10 volt, then cur	ren	t is	
	<b>A</b> 5A	<b>B</b> 3A	©	2A	<b>(D)</b>	6A	
22.	The unit of resistance	_	_		_		
	(A) Mho	B Siemens	©	Ohm	<b>(D)</b>	Ampere	
23.	The unit of power of	_	_				
	(A) m	B Dioptre	(C)	mm	<b>(D)</b>	cm	
24.	Power of concave le	ns is					
	A Negative	B Positive	©	May be negative	<b>(D)</b>	None of these	
25.	For power of combine	nation of two lenses					
	(a) $P = P_1 - P_2$	<b>(B)</b> $P = P_1 + P_2$	©	$P = \frac{P_1^2}{P_2}$	<b>(</b>	None of these	

# Chemistry

26.	A solution turns red litmus blue, its pH is likely to be-							
	<b>A</b> 1	<b>B</b> 4	©	5	<b>(D)</b>	10		
27.	Which one of the fol	llowing types of medic	ine	s is used for treatm	nent	indigestion-		
	Antibiotic	B Analgesic	©	Antacid	<b>(D)</b>	Antiseptic		
28.	Which of the follow	ring is not a strong acid	d?					
	$\bigcirc$ H <sub>2</sub> SO <sub>4</sub>	® CH <sub>3</sub> COOH	©	$HNO_3$	<b>(D)</b>	HCl		
29.	NaHCO <sub>3</sub> represent t	he formula of which o	ne	of the following?				
	Sodium carbonate			Baking soda				
	© Sodium acetate		<b>(</b>	Washing soda				
30.	When water is adde	d in a vessel containin	g lu	ımps of quick lime	, it i	s observed that		
	The vessel becomes hot							
	A hissing sound is produced							
	© Lump of quick lin	ne breaks and dissolve	es p	artially in water				
	All the above			72				
31.	A student while heat	ing some ferrous sulpl	nate	e crystals in a dry bo	oilin	g tube will observe:		
	Water droplets near the mouth of boiling tube							
	Colour change of the crystals							
	© Smell of burning	sulphur						
	All of the above							
32.	Reaction of iron nail	ls with copper sulphat	e so	olution is an examp	ole o	of		
	Combination rea	ction	lacksquare	Decomposition re	eact	ion		
	© Displacement rea	action	<b>(D)</b>	Double displacen	nen	t reaction		
33.	When Fe reacts with	water the correct stat	em	ent is				
	A Iron is oxidised b	y steam						
	B Iron is reduced b	y steam						
	© FeO is formed							
	© liquid water is used for this reaction at room temperature							

34.	$CuO$ reacts with $H_2$ gas the correct statement is							
	$\textcircled{A}$ CuO is reduced to Cu and $H_2$ is oxidise to $H_2O_2$							
	$\blacksquare$ CuO is reduced to Cu and H <sub>2</sub> is oxidise to H <sub>2</sub> O							
	© CuO is oxidised to	o Cu and ${ m H_2}$ is reduce	d to	$H_2O$				
	None of CuO or H	$ m H_2$ suffer oxidation or $ m I$	redu	ıction				
35.	The correct products	s when lead nitrate is	stro	ngly heated ?				
	$\triangle$ PbNO <sub>2</sub> + NO <sub>2</sub> + C	$0_{2}$	B	$PbO_2 + N_2 + O_2$				
	$\bigcirc$ Pb + NO <sub>2</sub> + O <sub>2</sub>		<b>(</b>	$PbO + NO_2 + O_2$				
36.	What happens when	n silver chloride is exp	ose	d to sunlight ?				
	Black coloured si	lver is produced along	g wi	th Cl <sub>2</sub> gas				
	Black coloured si	lver oxide is produced	d alo	ong with Cl <sub>2</sub> gas				
	© Grey coloured sil	ver oxide is produced	alo	ng with $\operatorname{Cl}_2$ gas				
	© Grey coloured sil	ver is produced along	wit	h Cl <sub>2</sub> gas				
37.	Which salt is formed	d by the reaction betw	een	strong acid and w	eak	base?		
	<b>⊗</b> CH <sub>3</sub> COONa	$lacksquare$ $K_2SO_4$	©	$(NH_4)_2SO_4$	<b>(D)</b>	CH <sub>3</sub> COONH <sub>4</sub>		
38.	Curd is not placed in	nside copper containe	ers b	ecause				
	(A) Curd becomes so	olid	B	Water present in	curc	l starts vapourizing		
	© Curd startes to re	eact with oxygen	<b>(D)</b>	Curd starts to rea	ct w	ith the metal		
39.	Which is the correct	product when metal	oxic	le reacts with acid	s?			
			B	$metal + O_2 gas + v$	vate	er		
	$\odot$ salt + H <sub>2</sub> gas + H <sub>2</sub>	O	<b>(D)</b>	$metal + O_2 gas + v$	vate	er		
40.	Which of the followi	ing cannot change the	blu	e colour of litmus	into	red?		
	A Tomato juice		$^{lack}$	NaHCO <sub>3</sub> solution	ı			
	© Tamarind juice		<b>(D)</b>	Oxalic acid soluti	on			
41.	Chemical formula o	f Glauber salt is						
	$\triangle$ Na <sub>2</sub> CO <sub>3</sub> .10H <sub>2</sub> O	$\blacksquare$ Na <sub>2</sub> SO <sub>4</sub> .5H <sub>2</sub> O	©	$Na_2SO_4.10H_2O$	<b>(D)</b>	$MgSO_4.7H_2O$		
<b>42</b> .	Pb(OH)Cl is a / an							
	Acidic salt	B Basic salt	©	Normal salt	<b>(D)</b>	Double salt		
43.	Which of the followi readily?	ng is the main constitu	ıen <sup>.</sup>	t of natural gas tha	t bu:	rns with oxygen ga		
	$\bigcirc$ SO <sub>2</sub>	® CH <sub>4</sub>	©	$NO_2$	<b>(</b>	$\mathrm{Cl}_2$		

44. Respiration is considered as an exothermic reaction because

- Mass of product decreases
- Mass of product increases

© Energy is absorbed

© Energy is released

45. Rancidity can be prevented by adding

Anti-oxidants to foods

Acids to foods

© Water to foods

Oxygen gas to food

### Case Based Questions (Q. 46-48):

Acids are the compounds which can change the blue colour of litmus into red and  $p^H$  of the solution is always less than 7. Lower  $p^H$  value of the solution indicates that the acid is strong. Phenolphthalein indicator remains colourless in acidic solution. Acids produce carbon dioxide gas after reacting with carbonate and bicarbonate salts.

46. Which gas is produced when nitric acid reacts with sodium bicarbonate?

A Carbon monoxide

B Carbon dioxide

© Nitric oxide

Nitrogen dioxide

**47.** Which data indicates the weakest acid?

- **(A)**  $p^{H} = 5.4$
- **B**  $p^{H} = 4.23$
- ©  $p^{H} = 3.89$
- $p^{H} = 2.67$

**48.** When a small amount of phenolphthalein is added to dilute sulphuric solution then the colour of the solution becomes

A Colourless to blue

- B Colourless to pink
- © Solution remains colourless
- © Colourless to green

**Assertion-Reason Type Questions (Q. 49):** 

**49. Assertion :** Copper powder receives a black coating when it is heated strongly in open air

Reason: Copper (II) oxide is formed when copper powder is heated in open air

**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

50.	Electrolysis is an exa	ample of				
	Displacement res	action	B	Double displacen	nen	t reaction
	© Decomposition r	eaction	<b>(D)</b>	Physical change		
•		Mathe	em	atics		•
51.	Which term of A.P. i	s 21, 42, 63, 84, is 21	0?			
	A 9 <sup>th</sup>	<b>B</b> 10 <sup>th</sup>	©	$11^{ m th}$	<b>(D)</b>	12 <sup>th</sup>
52.	What is the $n^{\text{th}}$ term	in the arithmetic serie	es g	iven below?		
	3+7+11+15+19+	- <b></b>				
	<b>(A)</b> 4 <i>n</i>	<b>B</b> 3 + 4n	©	2n + 1	<b>(D)</b>	4 <i>n</i> – 1
53.	_	n that AB = 3 cm, BC = m, then the perimeter			Tria	angle DEF is similar
	<b>A</b> 7.5 cm	<b>B</b> 15 cm	©	22.5 cm	<b>(</b>	30 cm
54.	In $\triangle$ ABC and $\triangle$ DEF, $\triangle$ ABC is similar to	$\angle A = 50^{\circ}, \angle B = 70^{\circ}, \angle B = 70^{\circ}$	∠C	= 60°, ∠D = 60°, ∠	E =	70°, $\angle$ F = 50°, then
	<b>Δ</b> DEF		©	ΔDFE	<b>(D)</b>	$\Delta { m FED}$
55.	The distance between	en points $A(1,3)$ and $B$	3(x,	7) is 5. The value o	f <i>x</i> >	• 0 is
	<b>A</b> 4	<b>B</b> 2	©	1	<b>(</b>	3
56.	Mid-point of the line	e-segment joining the	poi	ints (-5, 4) and (9, -	8) i	is
	<b>(</b> -7, 6)	<b>B</b> (2, -2)	©	(7, -6)	<b>(</b>	(-2, 2)
57.	The distance between	en the points $(a, b)$ and	d (-	<i>a</i> , – <i>b</i> ) is		
	(A) $a^2 + b^2$		©	0	<b>(</b>	$2\sqrt{a^2+b^2}$
58.	The distance of the	origin from the point I	P (3,	. – 2) is		
	$ ext{ }  ext$	$\bigcirc$ $\sqrt{15}$ units	©	$\sqrt{13}$ units	<b>(D)</b>	$\sqrt{11}$ units
59.	Which of the follow	ing are not similar figu	ıres	?		
	A Circles		B	Squares		
	© Equilateral triang	gles	D	Isosceles triangle	S	
60.	8 <sup>th</sup> term of the series	$5 \ 2\sqrt{2}, \sqrt{2}, 0$ will b	e			
	<b>(A)</b> $-5\sqrt{2}$	<b>B</b> $5\sqrt{2}$	©	$10\sqrt{2}$	<b>(D)</b>	$-10\sqrt{2}$

### 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):** If the  $n^{th}$  term of an A.P. is 7- 4n, then its common differences is-4.

**Reason (R):** Common differences of an A.P. is given by  $d = a_{n+1} - a_n$ 

A a

**B** b

© c

- (D) d
- **62. (A):** D and E are points on the sides AB and AC respectively of a  $\triangle$ ABC such that DE||BC then the value of x is 4, when AD = x cm, DB = (x-2) cm, AE = (x+2) cm and EC = (x-1) cm
  - **(R):** If a line is parallel to one side of a triangle, then it divides the other two sides in the same ratio.
  - A a

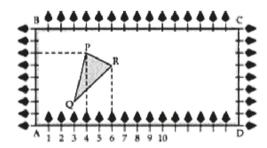
**B** b

© c

**0** d

## Case study based Questions (63 - 65):

Read the paragraph given below and answer the following questions:



The class X students of Bidhannagar Govt. school have been allotted a rectangular plot of land for their gardening activity. Saplings of Gulmohar are planted on the boundary at a distance of 1 m from each other. There is triangular grassy lawn in the plot as shown in the figure. The students are to sow seeds of flowering plants on the remaining area of the plot.

- **63.** Taking A as origin, find the coordinates of P
  - **(4, 6)**
- **B** (6, 4)
- (0,6)
- **(4, 0)**

**64.** What will be the coordinates of R, if C is the origin?

**(8, 6)** 

**B** (3, 10)

© (10, 3)

 $\bigcirc$  (0,6)

**65.** What will be the coordinates of Q, if C is the origin?

**(**6, 13)

**B** (-6, 13)

© (-3, 6)

**(13, 6)** 

**66.** If  $a = 2^3 \times 3$ ,  $b = 2 \times 3 \times 5$ ,  $c = 3^n \times 5$  and LCM  $(a, b, c) = 2^3 \times 3^2 \times 5$ , then  $n = 2^n \times 3^n \times 5$ 

A 4

**B** 3

© 1

**(D)** 2

**67.** If one root of the polynomial  $f(x) = 5x^2 + 13x + k$  is reciprocal of the other, then the value of k is

**(A)** 0

**B** 5

 $\odot \frac{1}{6}$ 

**D** 6

**68.** For what value of k, do the equations 3x - y + 8 = 0 and 6x - ky + 16 = 0 represent coincident lines?

 $\mathbb{B} - \frac{1}{2}$ 

© 2

**D** -2

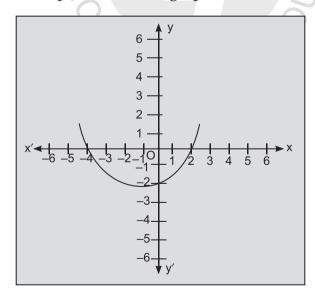
**69.** The sum of the digits of a two digit number is 9. If 27 is added to it, the digits of the number get reversed. The number is

**B** 72

© 63

**©** 36

70. What are the roots of the equation whose graphed below?



A 1 and 0

B 0 and 2

© -4 and 2

① 0 and 0

### Case study based Questions (71 - 73):

A construction company is working on a new sky scraper project. The buildings blue print includes several crucial points that need precise placement.

Coordinates of points: Point A (2, 3); Point B (8, 15).

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

- **71.** The architects need to place a support column at M which is exactly half way between the points A and B. Find the coordinates of this point M.
  - $\triangle$  (5, 10)
- **(B)** (5, 9)
- $\bigcirc$  (10, 5)
- $\bigcirc$  (9, 5)
- **72.** The electrical engineers need to run a conduit at C that will divide the path joining A and B internally in the ratio 2:3. Calculate the coordinates of C.
- © (8, 4)
- (4, 8)

- **73.** Find the distance between A and M.
  - $\bigcirc$   $\sqrt{65}$
- $\bigcirc$   $\sqrt{35}$
- ©  $\sqrt{55}$
- ①  $\sqrt{45}$

## **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.** (A): Distance between P(-1, 0) and Q(1, 0) is 2 units
  - (R): Distance between  $A(x_1, y_1)$ , and  $B(x_2, y_2)$  is

$$AB = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$$

(A) a

B h

© c

- (D) d
- 75. (A): D and E are points on the sides AB and AC respectively of a  $\triangle$ ABC such that AD = 5.7cm, DB = 9.5cm, AE = 4.8cm and EC = 8cm then DE is not parallel to BC.
  - (R): If a line divides any two sides of a triangle in the same ratio, then it is parallel to the third side.
  - (A) a

® h

© c

(D) d

# **Biology**

76.	. Which one is uricotelic ?						
	A Frog and toad			$^{f B}$	Lizard and bird		
	© Cattle, monkey as	nd i	man	<b>(D)</b>	Mollusc		
77.	The hormone that pr	on	notes reabsorption	of v	vater from glomerı	ılar	filtrate is :-
	Oxytocin	f B	Vasopressin	©	Relaxin	<b>(D)</b>	Calcitonin
78.	Which one of the en	doc	crine glands is know	vn a	as 'master gland'?		
	A Pituitary	f B	Adrenal	©	Thyroid	<b>(D)</b>	Parathyroid
79.	Cerebrum is a part o	f—					
	A Forebrain	lacksquare	Hindbrain	©	Midbrain	<b>(D)</b>	Neurons
80.	Which excretory ma	teri	al is least toxic :-				
	Ammonia			lacksquare	Urea		
	© Uric acid			<b>(D)</b>	All are equally tox	ic	
81.	A condition of failure	e of	kidneys to from u	ine	is called		
	Deamination	B	Entropy	©	Anuria	<b>(D)</b>	None of these
82.	Corpus callosum con	nne	ects—				
	(A) Two cerebral hem	nisp	oheres	B	Two optic lobes		
	© Two olfactory lob	es	" 1	<b>(D)</b>	Optic chiasma		
83.	Which of the followi	ng i	is not natural occu	rrin	g plant hormone—	-	
	<b>(A)</b> 2, 4-D	B	Cytokinin	©	Gibberellin	<b>(D)</b>	IAA
Asse	rtion Reason Based	Qu	estions (84 – 85):				

**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.

- 84. (A): Artificial kidney is a device to remove nitrogenous waste products from blood through dialysis.
  - (R): Reabsorption does not occur in artificial kidney.
- **85. (A):** Thyroxine is secreted by thyroid gland.
  - (R): Its deficiency leads to diabetes.

### Case Based Questions (86 - 90):

Read the passage given below and answer the following questions:

and of tro	movement of the pla	e plant movements want occurs in the directed on environmental	tio	n of the stimulus. T	Ther	e are various types		
86.	Stem is							
	Positively geotropic and positively hydrotropic							
	Negatively geotro	opic and positively pho	otot	cropic				
	© Negatively photo	tropic and positively g	geot	ropic				
	Negatively photo	tropic and negatively	che	motropic				
87.	7. Drooping of leaflets of <i>Mimosa pudica</i> upon touching, is an example of					e of		
	A Phototropism	B Hydrotropism	©	Geotropism	<b>(D)</b>	None		
88.	Movement of poller	n tube towards ovule is	C					
	A Phototropism	B Hydrotropism	©	Chemotropism	<b>(D)</b>	None		
89.	Coiling of tendrils to	owards the support is	call	ed				
	Negative phototr	opism	lacksquare	Positive hydrotro	pisn	n		
	© Thigmotropism		<b>(D)</b>	Geotropism				
90.	<b>O.</b> Unequal distribution on the two sides of a stem of which hormone causes bending of tendril around a support?					causes bending of a		
	Auxin	B Gibberellin	©	Cytokinin	<b>(D)</b>	ABA		
91.	Gastric juice is—							
	<b>A</b> Acidic	Alkaline	©	Neutral	<b>(D)</b>	Slightly alkaline		
92.	Saliva converts—							
	Proteins into am:	ino acids	B	Glycogen into glu	ıcos	e		

Pats into vitamins

© Starch into maltose

		L	1					
93.	Respiration by lungs	s is called—						
	A Pulmonary respi	ration	lacksquare	Cuticular respirat	tion			
	© Branchial respira	ation	<b>(D)</b>	Cutaneous respir	ation			
94.	Which among the fo	ollowing has the thicke	est v	vall?				
	A Right atrium	B Left atrium	©	Right ventricle	D Left ventricle			
95.	If the cut end of a pl	ant is put in eosin solu	ıtio	n:				
	Phloem gets colo	esh but ascent of sap soured because of ascer get stained showing as ps	nt of	sap	nem			
Case	Based Questions (9	96 - 98):						
Re	ead the passage giver	n below and answer th	e fo	llowing questions	(96-98).			
are t	wo kidneys, located i ey is placed a little l	in the abdominal cavit	y, o kidr	ne on each side of ney, due to position	an shaped organ. There f the backbone. The left oning of the liver. Each ns.			
96.	The connection bety called		ute	d Tubule and Dista	al Convoluted Tubule is			
	A Bowman's capsu	le	lacksquare	Loop of Henle				
	© Ureter	0/	<b>(D)</b>	Peritubular capill	laries			
97.	Urine is released wh	nen						
	Urinary bladder is full							
	Urinary bladder is half full							
	© Urinary bladder	is empty						
	① As soon as urine	As soon as urine comes into the urinary bladder from the ureters						
98.	The most toxic prod	uct excreted through	ırin	e is				
	A Water	B Hormones	©	Urea	Ammonia			
Asse	rtion Reason Based	Questions (Q. 99-100	)):					
ъ.		1	-		(4) : 6 11 1 1			

**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.
- 99. (A): Hormones are products of endocrine glands.
  - **(R):** Hormones usually act at a site remote from their origin.
- **100.** Reflex arc ends in\_\_\_\_
  - A Sensory neuron B Spinal cord
- © Effector organ
- Motor neuron



# **Space For Rough Works**

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