



# ADMISSION CUM SCHOLARSHIP TEST SAMPLE TEST PAPER

(For Students Appearing in Class 12<sup>TH</sup> BOARD IN 2021)

**STREAM : MEDICAL | COURSE OFFERED : MEDICAL REBOOST**

Time : 2 hours

Maximum Marks: 240

### INSTRUCTIONS

DO NOT BREAK THE SEALS ON THIS BOOKLET, AWAIT INSTRUCTIONS FROM THE INVIGILATOR.

**(A) General :**

1. This Question paper contains **THREE** parts (Physics, Chemistry and Biology).
2. This Question Paper contains 14 pages, other than the OMR.
3. This Question Paper contains total **60 questions, 20 questions each in Physics, Chemistry and Biology.**
4. The Question Paper has blank spaces at the bottom of each page for rough work.No additional sheets will be provided for rough work.
5. Blank papers, clip boards, log tables, slide rule, calculators, cellular phones, pagers and electronic gadgets, in any form, are **NOT** allowed.
6. This booklet also contains the **OMR** answer sheet (i.e., A machine gradable Response Sheet).

**(B) Answering on the OMR:**

7. Each question will have **4 choices** in both the Sections, out of which **only one choice is correct.**
8. Fill the bubble with **Ball Pen (Blue or Black) ONLY.**

**(C) Filling – Name and Registration No.**

9. On the **OMR sheet**, write your Name and Registration No. using ball pen. Also, put your signature in the appropriate box using ball pen.

**(D) Marking Scheme:**

9. (a) For each question, you will be awarded **4 marks** if you have darkened only one bubble corresponding to the right answer.  
 (b) In case you have not darkened any bubble, you will be awarded 0 mark for that question.  
 (c) In all other cases, you will be awarded **-1 mark.**

**SEAL**

Name : .....

Registration No.:

## PART-A : PHYSICS

1. A particle starts moving on a straight line with zero initial velocity and acceleration:

$$a = +2 \text{ m/s}^2 \text{ for } 0 < t < 2\text{s}$$

$$a = -2 \text{ m/s}^2 \text{ for } t > 2\text{s}.$$

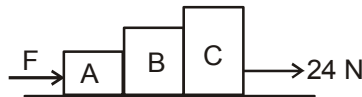
The time at which the particle will pass through its original position, is:

(A)  $4 + 2\sqrt{2}$  s      (B)  $2 + 2\sqrt{2}$  s      (C)  $2\sqrt{2}$  s      (D) 4 s

2. A particle starts moving on a circle with initial angular velocity zero, and some constant angular acceleration. The particle passes through its original position for the first time with angular velocity  $\omega$ . The angular velocity of the particle, at the moment it passes through its original position the second time, is:

(A)  $\sqrt{2}\omega$       (B)  $2\omega$       (C)  $2\sqrt{2}\omega$       (D)  $4\omega$

3. Three blocks A, B and C of mass 1kg, 2kg and 6kg respectively are placed in contact with each other, on a horizontal smooth surface, as shown in the figure. A force 24 N is applied horizontally on the block C, toward right. A force F is applied horizontally on the block A, toward right. If the normal contact force between the block B and C is zero, the value of F will be:



(A) 4 N      (B) 6 N      (C) 10 N      (D) 12 N

4. A perfectly flexible chain of mass M and length L is placed on a horizontal table. A boy holds one end of the chain and very slowly lifts this end vertically upward. The total work done by the boy in lifting the chain, by the time the other end of the chain just leaves contact with the table, is:

(A)  $Mg\frac{\ell}{2}$       (B)  $Mg\ell$       (C)  $\frac{2Mg\ell}{3}$       (D)  $2Mg\ell$

Space for rough work

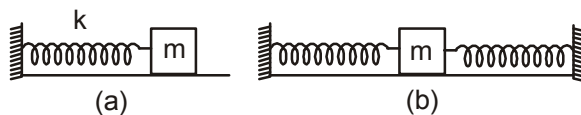
5. A ball is released on a horizontal floor, from a height of 320 m. Coefficient of restitution for the collision of the ball with the floor is  $1/2$ . The time interval between the second and the third collision of the ball with the floor is:
- (A) 2 s                      (B) 4 s                      (C) 6 s                      (D) 8 s
6. A circular disc of mass  $M$  and radius  $R$  is rolling (not pure rolling) on a horizontal surface. Velocity of the centre of the disc is  $v$ . Total kinetic energy of the disc is  $11Mv^2/4$ . Angular velocity of the disc is:

- (A)  $\frac{v}{R}$                       (B)  $\frac{2v}{R}$                       (C)  $\frac{3v}{R}$                       (D)  $\frac{4v}{R}$

7. A spherical solid ball of bulk modulus  $B$  is taken from the surface of ocean to a depth of  $h$ . The density of the liquid is  $\sigma$  (constant). Acceleration due to gravity is  $g$ . The fractional change in the radius of the ball is:

- (A)  $\frac{\sigma gh}{B}$                       (B)  $\frac{\sigma gh}{2B}$                       (C)  $\frac{\sigma gh}{3B}$                       (D)  $\frac{\sigma gh}{4B}$

8. A block is connected with a spring and placed on a smooth horizontal floor as shown in the figure (a). If displaced and released, the block oscillates with a time period  $T$ . Now the spring is cut into two equal parts and the two parts are connected with the same block as shown in the figure (b). Now the block will oscillate with time period:



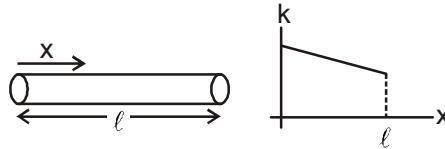
- (A)  $\frac{T}{\sqrt{2}}$                       (B)  $\frac{T}{2}$                       (C)  $T$                       (D)  $2T$

9. The velocity of the wave  $y = A\sin^2(ax + bt)$  is :

- (A)  $\frac{a}{b}$                       (B)  $\frac{b}{a}$                       (C)  $\frac{2a}{b}$                       (D)  $\frac{2b}{a}$

Space for rough work

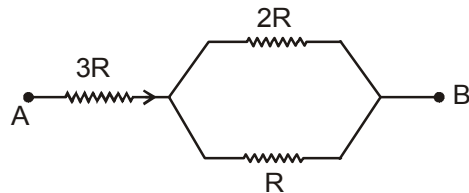
10. The coefficient of thermal conductivity of a rod changes with  $x$  (distance from left end) as shown in the graph. The left end of the rod is maintained at  $100^\circ\text{C}$ . In the steady state, the temperature of the midpoint of the rod is  $50^\circ\text{C}$ . The temperature ( $t^\circ\text{C}$ ) of the right end of the rod will be:



- (A)  $t > 0^\circ\text{C}$       (B)  $t < 0^\circ\text{C}$       (C)  $t = 0^\circ\text{C}$       (D) data insufficient.
11. Three particles A, B and C are placed on the vertices of an equilateral triangle. Mass of all particles is same. Charges on the particles A, B and C are  $+q$ ,  $-q$  and  $+q$ . The three particles are released simultaneously. Just after the releasing, ratio of the accelerations of the particle A and B ( $a_A / a_B$ ) will be:
- (A) 1      (B) 2      (C)  $\sqrt{3}$       (D)  $\frac{1}{\sqrt{3}}$
12. Two particle having same charge  $+Q$  are fixed at  $(0, b)$  and  $(2a, b)$ . A third particle of mass  $m$  and charge  $-q$  is released at  $(a, b + c)$ . Assuming,  $c \ll a$ , time period of the oscillations of the third particle will be:

(A)  $2\pi\sqrt{\frac{2\pi\epsilon_0 ma^3}{Qq}}$       (B)  $\pi\sqrt{\frac{\pi\epsilon_0 ma^3}{Qq}}$       (C)  $\pi\sqrt{\frac{2\pi\epsilon_0 ma^3}{Qq}}$       (D)  $2\pi\sqrt{\frac{\pi\epsilon_0 ma^3}{Qq}}$

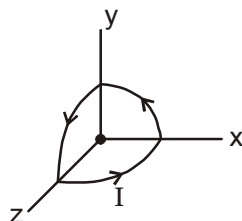
13. Three resistances  $R$ ,  $2R$  and  $3R$  are connected between A and B as shown in the figure. A current flows in the combination from A to B. The heat generated per second in resistance  $R$  is  $H$ . The total heat generated in the entire combination, per second, is:



(A)  $\frac{22}{3}H$       (B)  $6H$       (C)  $\frac{33}{4}H$       (D)  $\frac{11}{6}H$

Space for rough work

14. A loop consists of three circular parts lying in the  $xy$ ,  $yz$  and  $zx$  planes, such that their centres are common at origin. Radius of these three circular parts is  $R$ . A current  $I$  flows in the loop. Magnetic field at the origin will be:



- (A)  $\frac{\sqrt{3} \mu I}{2R}$       (B)  $\frac{\sqrt{3} \mu I}{4R}$       (C)  $\frac{\sqrt{3} \mu I}{8R}$       (D)  $\frac{\sqrt{3} \mu I}{16R}$

15. A charged particle having charge  $+q$  and mass  $m$  is projected from origin with velocity  $\mathbf{v} = v_0 \hat{i}$  in the uniform magnetic field  $\vec{B} = B_0 \hat{i} + B_0 \hat{j}$ . The particle will touch the  $xy$  plane for the first time, at:

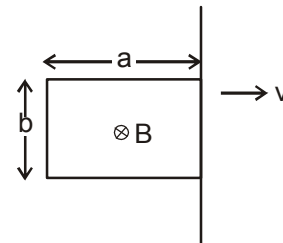
- (A)  $\left( \frac{\pi m v_0}{\sqrt{2} q B_0}, \frac{\pi m v_0}{\sqrt{2} q B_0} \right)$       (B)  $\left( \frac{\pi m v_0}{\sqrt{2} q B_0}, \frac{\pi m v_0}{2 q B_0} \right)$
- (C)  $\left( \frac{\pi m v_0}{2 q B_0}, \frac{\pi m v_0}{2 q B_0} \right)$       (D)  $\left( \frac{\pi m v_0}{q B_0}, \frac{\pi m v_0}{q B_0} \right)$

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Space for rough work

16. A rectangular loop of side lengths  $a$  and  $b$ , and total resistance  $R$  is placed in a uniform magnetic field  $B$ . The magnetic field exists only on the left side of the vertical line shown in the figure. The magnetic field is perpendicular to the plane of paper, and the loop is in the plane of paper. Initially the loop is completely inside the magnetic field, and it is pulled out of the magnetic field at a constant speed  $v$ , as shown in the figure. Total heat generated in the loop will be:

- (A)  $\frac{B^2 b^2 v a}{4R}$       (B)  $\frac{B^2 b^2 v a}{2R}$   
 (C)  $\frac{B^2 b^2 v a}{R}$       (D)  $\frac{2B^2 b^2 v a}{R}$



17. The rms value of the current  $I = (20\sqrt{2} A) \sin(10\pi t)$  is  
 (A) 10 A      (B)  $10\sqrt{2} A$       (C) 20 A      (D)  $20\sqrt{2} A$
18. A point object moves on the principal axis of a convex lens of focal length 10 cm. The speed of the object is 1 cm/s. The speed of the image at the moment the distance of the object from the lens becomes 15 cm, is:  
 (A) 1 cm/s      (B) 2 cm/s      (C) 3 cm/s      (D) 4 cm/s.
19. The radius of the orbit of electron in  $\text{He}^+$  in the fourth shell is  $r_1$ . The radius of the orbit of electron in H in the second shell is  $r_2$ . The ratio  $r_1/r_2$  is:  
 (A) 1      (B) 1/2      (C) 2      (D) 4
20. What is the component of  $3\hat{i} + 4\hat{j}$  along  $\hat{i} + \hat{j}$  ?  
 (A)  $\frac{7}{2}(\hat{i} + \hat{j})$       (B)  $\frac{3}{2}(\hat{i} + \hat{j})$       (C)  $\frac{5}{2}(\hat{i} + \hat{j})$       (D)  $\frac{1}{2}(\hat{i} + \hat{j})$

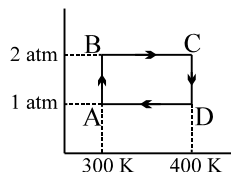
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**PART-B : CHEMISTRY**

21. Freezing point of an aqueous solution is  $(-0.186)^{\circ}\text{C}$ . Elevation of boiling point of the same solution is  $K_b = 0.512^{\circ}\text{C}$ ,  $K_f = 1.86^{\circ}\text{C}$ , find the increase in boiling point.  
(A)  $0.186^{\circ}\text{C}$                       (B)  $0.0512^{\circ}\text{C}$                       (C)  $0.092^{\circ}\text{C}$                       (D)  $0.2372^{\circ}\text{C}$
22. The value of  $(n_2 + n_1)$  and  $(n_2^2 - n_1^2)$  for  $\text{He}^+$  ion in atomic spectrum are 4 and 8 respectively. The wavelength of emitted photon when electron jump from  $n_2$  to  $n_1$  is  
(A)  $\frac{32}{9} R_H$                       (B)  $\frac{9}{32} R_H$                       (C)  $\frac{9}{32} R_H$                       (D)  $\frac{32}{9} R_H$
23. For a certain gas which deviates a little from ideal behaviour. A plot between  $P/\rho$  vs  $P$  was found to be non-linear, the intercept on y-axis will be :  
(A)  $\frac{RT}{M}$                       (B)  $\frac{M}{RT}$                       (C)  $\frac{MZ}{RT}$                       (D)  $\frac{R}{TM}$
24. The dissociation constant for  $[\text{Ag}(\text{NH}_3)_2]^+$  into  $\text{Ag}^+$  and  $\text{NH}_3$  is  $10^{-13}$  at 298 K. If  $E^{\circ}_{\text{Ag}^+/\text{Ag}} = 0.8\text{V}$ , then  $E^{\circ}$  for the half cell  $[\text{Ag}(\text{NH}_3)_2]^+ + e^- \longrightarrow \text{Ag} + 2\text{NH}_3$  will be  
(A)  $0.33\text{V}$                       (B)  $-0.33\text{V}$                       (C)  $-0.033\text{V}$                       (D)  $0.033\text{V}$
25. A solution contains  $0.09\text{M HCl}$ ,  $0.09\text{M CCl}_2\text{HCOOH}$ , and  $0.1\text{M CH}_3\text{COOH}$ . If total  $[\text{H}^+] = 0.1\text{M}$  and  $K_a$  for  $\text{CH}_3\text{COOH} = 10^{-5}$ ,  $K_a$  for  $\text{CCl}_2\text{HCOOH}$  is -  
(A)  $1.35 \times 10^{-4}$                       (B)  $0.18 \times 10^{-2}$   
(C)  $0.18 \times 10^{-5}$                       (D)  $1.25 \times 10^{-2}$
26. In a first order reaction, the concentration of the reactant, decreases from  $0.8\text{M}$  to  $0.4\text{M}$  in 15 minutes. The time taken for the concentration to change  $0.1\text{M}$  to  $0.025\text{M}$  is  
(A) 7.5 minutes                      (B) 15 minutes                      (C) 30 minutes                      (D) 60 minutes

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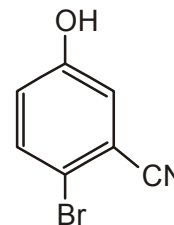
27. Two moles of Helium gas undergo a reversible cyclic process as shown in figure. Assuming gas to be ideal, what is the net work involved in the cyclic process?



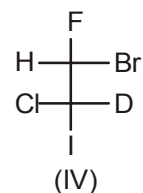
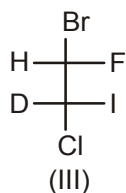
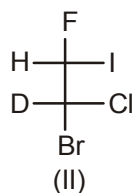
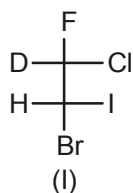
- (A)  $-100R/n4$       (B)  $+100R/n4$       (C)  $+200R/n4$       (D)  $-200R/n4$
28. Solid  $\text{Ca}(\text{HCO}_3)_2$  decomposes as
- $$\text{Ca}(\text{HCO}_3)_2(\text{s}) \rightleftharpoons \text{CaCO}_3(\text{s}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g})$$
- If the total pressure is 0.2 bar at 420 K, what is the standard free energy change for the given reaction ( $\Delta_r G^\circ$ )?

- (A) 840 kJ/mol      (B) 3.86 kJ/mol      (C) 6.98 kJ/mol      (D) 16.083 kJ/mol
29. The IUPAC name of the following compound is:-

- (A) 4-Bromo-3-cyanophenol  
 (B) 2-Bromo-5-hydroxybenzonitrile  
 (C) 2-Cyano-4-hydroxybromobenzene  
 (D) 6-Bromo-3-hydroxybenzonitrile



30. Number of fractions on fractional distillation of mixture of :

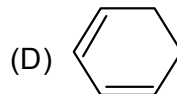
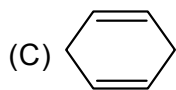
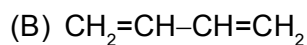
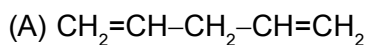


- (A) 2      (B) 3      (C) 4      (D) 1

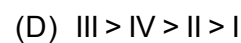
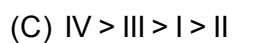
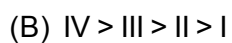
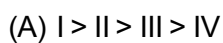
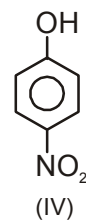
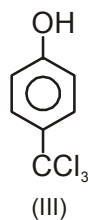
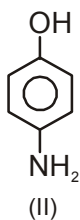
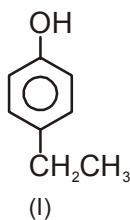
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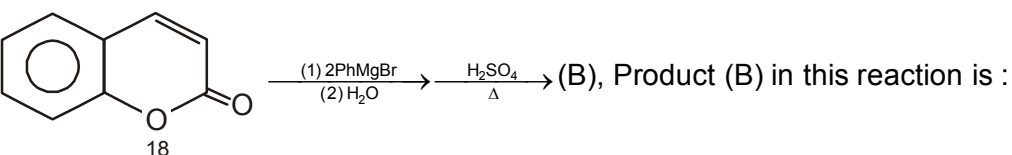


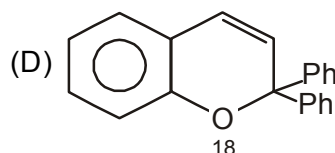
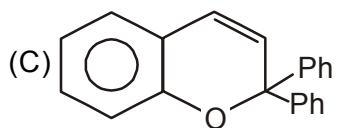
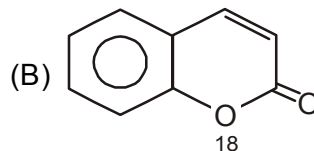
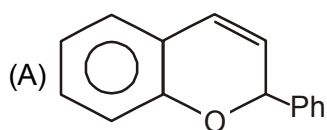
31. Which of the following compound on ozonolysis followed by oxidative hydrolysis yields propane-1, 3-dioic acid (malonic acid) as the only product?



32. The correct order of acidic strength of given compound is

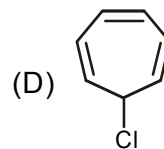
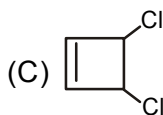
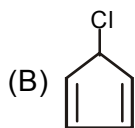
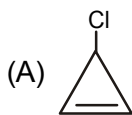


33.  (B), Product (B) in this reaction is :

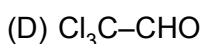
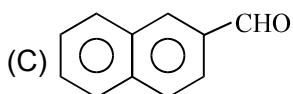
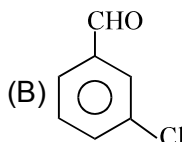
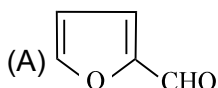


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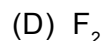
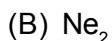
34. Which of the following does not give white ppt. of AgCl when treated with AgNO<sub>3</sub>



35. Which of following will not undergo Cannizzaro reaction



36. In which of the following Molecules  $\sigma_{2p_z}$  Molecular orbital is filled after  $\pi_{2p_x}$  and  $\pi_{2p_y}$  molecular orbitals?



37. The electronegativity of H, X, O are 2.1, 0.8 and 3.5 respectively comment on the nature of compound H-O-X that is :

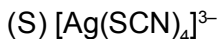
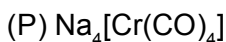
(A) Basic

(B) Acidic

(C) Amphoteric

(D) Cant be predicted

38. The complex which is  $dsp^2$  hybridized and diamagnetic in nature?



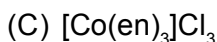
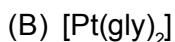
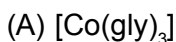
(A) P,Q,S only

(B) P,R,S,T only

(C) Q,R,T only

(D) R,T only

39. The complex which exhibits geometrical as well optical isomersim is :



40. Incerasing order of average oxidation state of iron in Haemtite(P), Magnatite (Q) and Siderite (R).

(A) P < Q < R

(B) R < Q < P

(C) R < P < Q

(D) Q < P < R

Space for rough work

## PART-C : BIOLOGY

41. Match the entities in Column-I with their character in Column-II regarding cell cycle :

**Column-I**

- (a) Leptotene
- (b) Zygotene
- (c) Pachytene
- (d) Diplotene
- (e) Diakinesis
- (A) a-(iv), b-(v), c-(iii), d-(i), e-(ii)
- (C) a-(iv), b-(iii), c-(ii), d-(v), e-(i)

**Column-II**

- (i) Terminalisation of chiasmata
- (ii) Formation chiasmata
- (iii) Synapsis
- (iv) Chromosomes become gradually visible
- (v) Crossing over
- (B) a-(iv), b-(iii), c-(v), d-(ii), e-(i)
- (D) a-(iii), b-(iv), c-(v), d-(ii), e-(i)

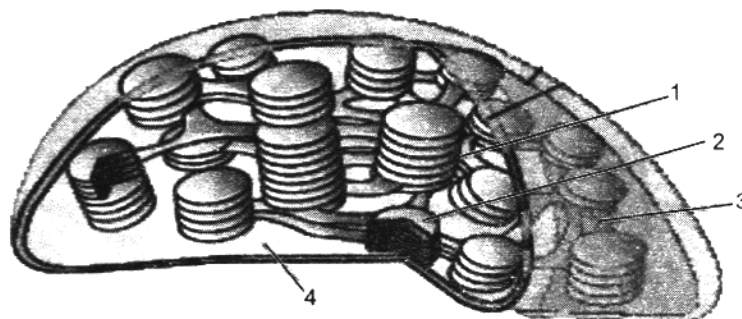
42. RNA and protein synthesis occurs in :

- (A)  $G_1$ -phase
- (B)  $G_0$ -phase
- (C)  $G_1$ -phase
- (D) Both (A) and (B)

43. Mitotic spindle attached with kinetochore of centromere is :

- (A) Starting of prophase
- (B) End of prophase
- (C) Starting of metaphase
- (D) End of metaphase

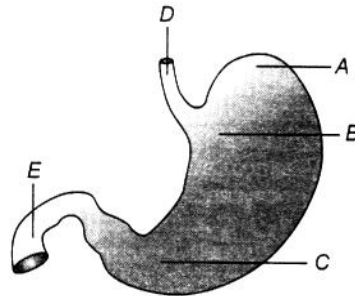
44. Given diagram is a section of \_\_\_\_\_ and 1 and 4 represents :



- (A) Chloroplast, 1-Stromal lamella, 4-Granum
- (B) Chloroplast, 1-Stroma, 4-Thylakoid
- (C) Chromoplast, 1-Granum, 4-Stromal lamella
- (D) Chloroplast, 1-Granum, 4-Stroma

Space for rough work

45. A piece of wood having no vessels (trachea) must belong to :  
 (A) Teak (B) Mango (C) Pine (D) Palm
46. Inheritance of skin colour in humans is an example of  
 (A) Point mutation (B) Polygenic inheritance  
 (C) Codominance (D) Chromosomal aberration
47. Transformation was discovered by  
 (A) Meselson and Stahl (B) Hershey and Chase  
 (C) Griffith (D) Watson and Crick
48. The organism, used for alcohol fermentation, is  
 (A) Aspergillus (B) Saccharomyces (C) Pseudomonas (D) Penicillium
49. Nucleosome core is made of  
 (A) H1, H2A, H2B and H3 (B) H1, H2A, H2B, H4  
 (C) H1, H2A, H2B, H3 and H4 (D) H2A, H2B, H3 and H4
50. What is not true for genetic code ?  
 (A) It is nearly universal (B) It is degenerate  
 (C) It is unambiguous (D) A codon in mRNA is read in a non-contiguous
51. What is the correct labelling of diagram given below? Choose the correct option accordingly?



- (A) A–Fundic portion, B–Cardiac region, C–Pyloric region, D–Food pipe, E–Wind pipe  
 (B) A–Fundus, B–Pyloric region, C–Cardiac region, D–Oesophagus, E–Duodenum  
 (C) A–Fundic region, B–cardiac region, C–Pyloric region, D–Oesophagus, E–Duodenum  
 (D) A–Cardiac region, B–Pyloric region, C–Fundic region, D–Oesophagus, E–Duodenum

Space for rough work

52. Given below are four methods (A–D) and their modes of action (p–s) in achieving contraception.

Select their correct matching from the four options that follow :

<b>Method</b>	<b>Mode of Action</b>
A. The pill	(p) Prevents sperms reaching cervix
B. Condom	(q) prevents sperms motility.
C. Vesectomy	(r) prevents ovulation
D. Copper T	(s) Semen contains no sperms

**Codes :**

- |                                  |                                  |
|----------------------------------|----------------------------------|
| (A) A – (q), B–(r), C–(p), D–(s) | (B) A – (r), B–(p), C–(s), D–(q) |
| (C) A – (s), B–(p), C–(q), D–(r) | (D) A – (r), B–(s), C–(p), D–(q) |

53. What is true for an ideal contraceptive ?

- I. It should be user–friendly
- II. It should be easily available.
- III. It should be ineffective and reversible with least side effects.
- IV. It should be effective and reversible with least side effects.
- V. It should interfere with the sexual act of the user

- |         |                |               |                  |
|---------|----------------|---------------|------------------|
| (A) All | (B) I, II, III | (C) I, II, IV | (D) I, II, IV, V |
|---------|----------------|---------------|------------------|

54. Sometimes the labor pains are less and uterine contractions have to be induced. What do you think the doctors inject to facilitate delivery?

- |  |                        |
|--|------------------------|
| (A) Progesterone and estrogen hormones | (B) Oxytocin / Pitocin |
| (C) FSH and LH                         | (D) Relaxin            |

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Space for rough work

55. If both ovaries are removed from pregnant human female after first trimester of pregnancy then it will lead to
- (A) Abortion (B) Normal development of foetus  
(C) Irregular ovulation (no fixed time interval) (D) Menarche
56. Which is a typical example of 'feedback inhibition'?
- (A) cyanide and cytochrome reaction  
(B) sulpha drugs and folic acid synthesizer bacteria  
(C) allosteric inhibition of hexokinase by glucose 6-phosphate  
(D) reaction between succinic dehydrogenase and succinic acid.
57. During one circuit of blood from lungs to tissues and back through circulatory system, the percentage of  $O_2$  giving up by Hb to tissues is :
- (A) 25% (B) 40% (C) 60% (D) 97%
58. Find out the source/s of energy for the synthesis of complex molecules in the atmosphere of primitive Earth :
- (A) Lightning and cosmic rays (B) Volcanic heat and UV radiation  
(C) Soil radioactivity / soil high temperature (D) All of the above
59. During the successive evolution of living forms, anaerobic photoautotroph appeared before the :
- (A) Origin of life (B) Chemoheterotroph  
(C) Chemoautotroph (D) Aerobic photoautotroph
60. Which of the following is not a ventricle of human brain ?
- (A) Metacoel (B) Paracoel (C) Neurocoel (D) Diocoel

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Space for rough work

# ANSWER KEYS

## SAMPLE TEST PAPER

(For Students Appearing in Class 12<sup>TH</sup> BOARD IN 2021)

STREAM : MEDICAL | COURSE OFFERED : MEDICAL REBOOST

### PHYSICS

- |         |         |         |         |
|---------|---------|---------|---------|
| 1. (A)  | 2. (A)  | 3. (D)  | 4. (A)  |
| 5. (B)  | 6. (C)  | 7. (C)  | 8. (B)  |
| 9. (B)  | 10. (B) | 11. (D) | 12. (A) |
| 13. (C) | 14. (C) | 15. (A) | 16. (C) |
| 17. (C) | 18. (D) | 19. (C) | 20. (A) |

### CHEMISTRY

- |         |         |         |         |
|---------|---------|---------|---------|
| 21. (B) | 22. (C) | 23. (A) | 24. (D) |
| 25. (D) | 26. (C) | 27. (A) | 28. (D) |
| 29. (B) | 30. (C) | 31. (C) | 32. (C) |
| 33. (D) | 34. (B) | 35. (D) | 36. (C) |
| 37. (A) | 38. (C) | 39. (A) | 40. (B) |

### BIOLOGY

- |         |         |         |         |
|---------|---------|---------|---------|
| 41. (B) | 42. (D) | 43. (C) | 44. (D) |
| 45. (C) | 46. (B) | 47. (C) | 48. (B) |
| 49. (D) | 50. (D) | 51. (C) | 52. (B) |
| 53. (C) | 54. (B) | 55. (B) | 56. (C) |
| 57. (A) | 58. (D) | 59. (D) | 60. (C) |