

Reg. No. : .....

Name : .....

**Sixth Semester B.Sc. Degree Examination, April 2024**

**First Degree Programme under CBCSS**

**Zoology**

**Core Course**

**ZO 1641 : PHYSIOLOGY AND BIOCHEMISTRY**

**(2019 Admission Onwards)**

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions. Each carries 1 mark.

1. PEM
2. Apnoea
3. Heart beat
4. Bronchitis
5. Tetanus
6. Adolescence
7. Epilepsy
8. Parthenogenesis
9. AFP
10. Balanced diet

**(10 × 1 = 10 Marks)**

II. Answer any **eight** of the following. (Not to exceed one paragraph). Each carries 2 marks.

11. Myocardial infarction
12. Oxygen debt

P.T.O.

13. Pacemaker
14. Haematuria
15. Summation
16. Rigor mortis
17. Parturition
18. Disaccharides
19. Lecithins
20. Organiser
21. Aimocentesis
22. Cell lineage

**(8 × 2 = 16 Marks)**

III. Answer any **six** of the following. (not to exceed 120 words)  
Each carries **4** marks.

23. Describe blood and its composition.
24. Explain the transport of carbon dioxide.
25. Describe the composition of urine.
26. Explain respiratory pigments.
27. Explain physiological effects of smoking.
28. Describe kidney transplantation.
29. Explain synaptic transmission.
30. Describe causes of teratology.
31. Explain different types of Blastula.

**(6 × 4 = 24 Marks)**

IV. Answer any **two** of the following. Each carries **15** marks.

32. Write an essay on fat soluble vitamins—other names, its source, dosage and deficiency diseases.
33. Explain with a neat labeled diagram, the structure and the steps formation of Urine.
34. Describe the steps in the mechanism of blood clotting.
35. Elaborate Spemann's constriction experiments.

**(2 × 15 = 30 Marks)**