

**E 3131**



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Reg. No.....

Name.....

**UNDERGRADUATE (C.B.C.S.S.) EXAMINATION, APRIL 2022**

**Fifth Semester**

Open Course—HUMAN PHYSIOLOGY

(Offered by the Expert Committee for B.Sc. Microbiology)

[2013—2016 Admissions]

Time : Three Hours

Maximum Marks : 80

**Section A**

*Answer all questions.  
Each question carries 1 mark.*

Comment on the following :

- |                       |                        |
|-----------------------|------------------------|
| 1. Insulin.           | 2. Heart sound.        |
| 3. ESR.               | 4. Nephrons.           |
| 5. Systolic pressure. | 6. Ventilator.         |
| 7. Cardiac cycle.     | 8. Myoneural junction. |
| 9. Synapse.           | 10. Hypothyroidism.    |

(10 × 1 = 10)

**Section B**

*Answer any eight of the following.  
Each question carries 2 marks.*

Write briefly on :

- |   |                               |
|---|-------------------------------|
| 11. Role of pituitary gland.            | 12. Gas transport in body.    |
| 13. Adrenal gland.                      | 14. Neurotransmitters.        |
| 15. Pulmonary circulation.              | 16. HCL secretion in stomach. |
| 17. Action potential of cardiac muscle. | 18. An endocrine disorder.    |
| 19. Rigor mortis.                       | 20. Neuro hormones.           |
| 21. Salivary gland secretions.          | 22. Blood transfusion.        |

(8 × 2 = 16)

**Turn over**





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### Section C

Answer any **six** of the following.  
Each question carries 4 marks.

Write short notes on :

23. Pancreas and pancreatic juice.
24. Role of reproductive hormones.
25. Regulation of electrolyte balance.
26. Organization of respiratory system.
27. Structure of kidney.
28. Hormones of pancreas and action.
29. Structure of muscles.
30. Mechanism of muscular contraction.
31. Action of endocrine gland hormones.

(6 × 4 = 24)

### Section D

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

32. Explain composition and functions of blood. Write about blood groups.
33. Describe structure and functions of liver.
34. Explain different classes of hormones. Mention action of gastrointestinal hormones.
35. Give an account on nervous system and its classification.

(2 × 15 = 30)

