



Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, March 2022
Career Related First Degree Programme under CBCSS

Group 2(a) – Botany and Biotechnology

Vocational Course IV

BB 1372 : ANIMAL PHYSIOLOGY AND ANATOMY

(2013 – 2018 Admission)

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **all** questions in a **word** or a sentences. Each question carries **1** mark.

1. Define osmoregulation.
2. Name an inhibitory neurotransmitter.
3. Name any two glands associated with human digestive system.
4. Longest bone in human body.
5. Name the enzyme involved in acrosome reaction.
6. Name any two hormones secreted by pancreas.
7. Name the respiratory pigment present in muscles.
8. Adipose tissue.

9. Name the centre of aerobic respiration in eukaryotes.

10. Lymphocytes.

(10 × 1 = 10 Marks)

SECTION – B

Short answer questions. Not exceed in one paragraph. Answer any eight.
Each carries 2 marks.

11. Give any four functions of nephrons.
12. What are alveoli? Mention its function.
13. What are glial cells?
14. What is capacitation?
15. Write down the major differences of blood and lymph.
16. Saltatory transmission.
17. Differentiate between myogenic and neurogenic muscles.
18. What are glucocorticoids? Give one example.
19. Distinguish between external and internal respiration.
20. Write any four functions of insulin.
21. What is Bowman's capsule?
22. Write down any two functions of gastrin and secretin.

SECTION – C

(8 × 2 = 16 Marks)

Short Essay. Not to exceed 120 words. Answer any six. Each carries 4 marks.

23. Write a short essay on giant nerve fibres.
24. Write notes on the hormones secreted by thyroid gland.

25. Write a short essay on pulmonary respiration.
26. Explain dialysis.
27. Explain the molecular organization of haemoglobin.
28. Comment on the role of ADH in the regulation of urine production.
29. Write notes on the feedback mechanism involved in hormone secretion.
30. Explain Counter current mechanism.
31. Explain the structure of a neuron.

(6 × 4 = 24 Marks)

SECTION – D

Long essay. Answer any **two** questions. Each carries **15** marks.

32. Explain the mechanism of contraction of skeletal muscles.
33. Write an essay on the absorption of digested food.
34. Explain the structure of human heart with the help of a neatly labelled diagram.
35. Describe the hormonal control of menstrual cycle.

(2 × 15 = 30 Marks)