



Reg. No. :

Name :

Third Semester B.Sc. Degree Examination, December 2017

(Career Related First Degree Programme under CBCSS)

Group 2(a) : Botany and Biotechnology

Vocational Course - V

BB 1372 - ANIMAL PHYSIOLOGY AND ANATOMY

(2013 Admission Onwards)

Time : 3 Hours

Max. Marks : 80

SECTION - A

Answer all the questions in a word or one or two sentences. (10×1=10 Marks)

1. What is Neuroglia cell ? Mention its functions.
2. Name enzyme producing cells of Gastric gland.
3. What is Pace maker ?
4. What is node of Ranvier ? What is the function ?
5. What are external intercostals ? Mention its function.
6. Define Osmoregulation.
7. Mention the role of Enterokinase in digestion. Where it is produced ?
8. What is Foramen of magnum ? Mention its function.
9. Name two female Sex hormones.
10. What is Cretinism ?



SECTION - B

Short answer questions. **Not** exceed in **one** paragraph. Answer **eight**. (8×2=16 Marks)

11. Define Dental formula. Give the dental formula of adult man.
12. What are Heart sounds ?
13. Differentiate between Skeleton and Smooth muscles.
14. Comment on Succus entericus.
15. Explain the phases of Respiration.
16. Comment on Cranial meninges.
17. What is Ammonotellism ? Give an example.
18. Explain Juxta glomerular apparatus.
19. How is nerve impulse transmitted across chemical synapse ?
20. Comment on the composition of Bile.
21. Explain the division of vertebral column of man.
22. Compare Blood and Lymph.

SECTION - C

Short Essay. **Not** to exceed **120** words. Answer **any six**. (6×4=24 Marks)

23. Describe the functional units of Muscle contraction.
24. Comment on haemoglobin and methaemoglobin.
25. Comment on the structural and functional units of Kidney.
26. What is uremia ? Comment on Haemodialysis.
27. Classify neurons on the basis of its structure and function. Give example for each.



28. Briefly explain the basic features of embryogenesis in metazoans.
29. Describe the process of carbon dioxide transportation from cells to lungs.
30. Describe the Feedback mechanism.
31. Describe asexual reproduction in animals.

SECTION – D

Long Essay. Answer **any two**.

(2×15=30 Marks)

32. Describe hormones produced by hypophysis and epiphysis and its functions.
 33. Explain the structure and working of human heart with the help of a diagram.
 34. Describe Gametogenesis. Comment on the structure of sperm and ovum.
 35. Describe the different kinds of connective tissues in Human body.
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