

Reg. No. :

Name :

Fourth Semester B.Sc. Degree Examination, July 2019

First Degree Programme under CBCSS

Complementary Course for Botany, Home Science and Bio-Chemistry

ZO 1431.1 : APPLIED ZOOLOGY

(2013 and 2014 Admissions)

Time : 3 Hours

Max. Marks : 80

I. Answer **all** questions with two diagnostic features (1 mark each)

1. Cleavage
2. Cleft palate.
3. Morigulture
4. Cheena vala.
5. Apiary
6. Ancona
7. Albinism
8. Mesolecithal egg.
9. Ligase
10. In vivo gene therapy

(10 × 1 = 10 Marks)

P.T.O.

II. Answer any **eight** of the following (2 marks each) :

11. Down syndrome.
12. Name four species of Silkworms.
13. Ultrasound scanning.
14. Coeloblastula.
15. DNA splicing.
16. Fowl pox disease.
17. Royal jelly.
18. Pedigree analysis.
19. Mugil cephalus.
20. Polarity
21. Anthrax.
22. Explain the external parasites causing diseases in dairy animals.

(8 × 2 = 16 Marks)

III. Answer any **six** of the following (4 marks each) :

23. Comment on Honey.
24. Distinguish between trisomy 18 and trisomy 13.
25. Write a brief note on bioethics of stem cell research.
26. Explain the culturing of pearls.
27. Comment on Plasmid vector.

28. What do you mean by somatic cell gene therapy?
29. Describe the modifications of walking legs in worker bees.
30. Describe the process of amniocentesis.
31. Briefly explain the various fishing gears.

(6 × 4 = 24 Marks)

IV. Answer any **two** of the following (15 marks each) :

32. Describe various steps of gene cloning.
33. Explain diseases of Poultry.
34. Write an essay on construction and maintenance of an aquarium.
35. Add a note on Fertilization.

(2 × 15 = 30 Marks)