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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, December 2016
First Degree Programme Under CBCSS
Complementary Course for Botany, Home Science and Bio-chemistry
ZO 1331.1 : FUNCTIONAL ZOOLOGY
(2015 Admission)

Time : 3 Hours Max. Marks : 80

***Instruction** : Draw diagrams **wherever** necessary.*

I. Answer **all** questions in **one** or **two** sentences (**Each** question carries **one** mark).

1) What is xerophthalmia ?

2) What is asphyxia ?

3) Name two blood groups, one with antigen A and B and the other with antibodies a and b.

4) In which disease condition do you find persistent glycosuria ?

5) What is rigor mortis ?

6) What is Dyspnoea ?

7) What is acromegaly ?

8) What are antibodies ?

9) Give any two functions of oestrogen.

10) What is sarcoplasmic reticulum ? **(10×1=10 Marks)**

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II. Answer **any eight** of the following :

11) How do mammals differ from birds in the nature of excretion ?

12) Distinguish between serum and plasma.

13) What are the functions of erythrocytes ?

14) What is arteriosclerosis ?

15) What are neurotransmitters ? Give two examples.

16) What is dialysis ?

17) What is meant by carbon monoxide poisoning ?

18) Define "all or none" law.

19) Differentiate between acidosis and alkalosis.

20) What is meant by passive immunization ?

21) Mention the cells involved in acquired immunity.

22) Person with AB group of blood can receive blood from all individuals. Give reason.

(8×2=16 Ma

III. Answer **any six** of the following :

23) Give an account on the neural control of respiration.

24) Explain the transport of carbon dioxide in human body.

25) Discuss the intrinsic pathway of blood clotting.

26) Write an account on different types of immunity.

27) Explain the different types of excretion found in animals.

28) With a labelled diagram describe the peculiarities of cardiac muscles.

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29) What are malnutrition disorders ? Explain with two examples.

30) Give an account on the composition of urine.

31) What is EEG ? Explain its application. **(6×4=24 Marks)**

IV. Answer **any two** of the following :

32) Write an account on the organs and tissues of the immune system.

33) Describe the structure of a neuron. Explain how nerve impulses are generated and transmitted.

34) Write an account on the endocrine glands in the human body, the hormones secreted by them and their functions.

35) With the help of a diagram explain the ultra structure of a striated muscle fibre and the mechanism of muscle contraction. **(2×15=30 Marks)**

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