Reg. No. : .....

Name : .....

(Pages : 2)

E – 1738

Sixth Semester B.Sc. Degree Examination, April 2018
First Degree Programme under CBCSS
Core Course X
ZO 1642 – ECOLOGY, ETHOLOGY, EVOLUTION AND ZOOGEOGRAPHY
(2015 Admission)

Time : 3 Hours

Max. Marks : 80

I. Answer the following questions (In **one** or **two** sentences. **One** mark **each**).

1) Ecotone.
2) IUCN.
3) Mesozoic era.
4) Shelford's law of tolerance.
5) e-wastes.
6) Imprinting.
7) Gene pool.
8) Isolated distribution.
9) Phagotrophs.
10) Genetic drift.

(10×1=10 Marks)

II. Answer **any eight** of the following (**Not** to exceed **one** paragraph. **Each** carries **two** marks).

11) What is meant by carbon trading ?
12) What are ecological indicators ?
13) Explain the theory of use and disuse.
14) What are threatened species ?
15) Write a note on Carbon dating.
16) What is meant by latent learning ?

All Saints' College Trivandrum

17) Explain Germ plasm theory.

18) Bring out the significance of Western ghats.

19) What is meant by adaptive radiation ? Give an example.

20) List out the major features of Australopithecus.

21) Comment on motivation.

22) Write a note on Bio-piracy. **(8×2=16 Marks)**

III. Answer **any six** of the following (**Not** to exceed **120** words. **Each** carries **4** marks).

23) Explain the effects of radiation on human health.

24) Give an account on human pheromones.

25) Explain nitrogen cycle.

26) Give an account on population growth forms.

27) Explain various barriers against animal distribution.

28) Give a brief description of oceanic islands with a suitable example.

29) Explain the various factors that upset Hardy-Weinberg equilibrium.

30) Write an account on different types of Speciation.

31) Explain social organization in primates. **(6×4=24 Marks)**

IV. Answer **any two** of the following (**Each** carries **15** marks).

32) Explain the different bioremediation strategies used in the treatment of environmental pollutants.

33) Explain various types of learning in animals.

34) Write an essay on various zoogeographical realms.

35) Explain Darwinism. Add a note on the criticisms against the theory.

(2×15=30 Marks)

All Saints' College Trivandrum