

K18U 0151

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Imp.)

Examination, May 2018

Core Course in Zoology

6B11ZLG : ENVIRONMENTAL SCIENCE AND CONSERVATION BIOLOGY

(2014 Admission Onwards)

Time : 3 Hours

Max. Marks : 40

Instructions : Answer may be written either in **English** or in **Malayalam**. Give illustrations **wherever** necessary.

I. Answer **any one**. (1×8=8)

- 1) Write an essay on biogeochemical cycles.
- 2) Define ecological succession. What are the basic types and process in succession ?

II. Answer **any one**. (1×8=8)

- 3) Explain properties of population.
- 4) Write a note on wildlife conservation and management.

III. Answer **any two**. (2×4=8)

- 5) Explain importance of mangroves in coastal ecosystem.
- 6) Give an account of energy flow in an ecosystem.
- 7) What is the basic concept of limiting factors and explain Liebig's law of minimum ?
- 8) Describe the features of a cave biome.

IV. Answer **any six**. (6×2=12)

- 9) What do you mean by Biomagnifications ?
- 10) Note on carrying capacity.
- 11) Explain biotic potential.
- 12) Describe growth curves.

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K18U 0151



- 13) Name any two important Acts related with wildlife conservation.
- 14) Define food chain and food web.
- 15) Explain ecotone and edge effect.
- 16) Write notes on global warming.

(4×1=4)

V. Answer the following :

- 17) Define endemic species.
- 18) Define Red data list.
- 19) Expand GIS.
- 20) a) In a food chain, every step where transfer of energy takes place is called
b) Species which are at the verge of extinction are called
c) Name the layer of atmosphere in which Ozone layer is present
d) Common symbiotic nitrogen fixing bacteria present in the root nodules of Leguminous plant is



K17U 0396

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Regular) Examination, May 2017
(2014 Admn.)

CORE COURSE IN ZOOLOGY

6B11 ZLG : Environmental Science and Conservation Biology

Time : 3 Hours

Max. Marks : 40

Instructions : Answer may be written either in **English** or in **Malayalam**.

Give illustrations **wherever** necessary.

I. Answer **any one** :

(1×8=8)

- 1) Define ecological succession. What are the basic types and process in succession ?
- 2) Explain various biotic and abiotic factors of an ecosystem.

II. Answer **any one** :

(1×8=8)

- 3) Write notes on global environmental issues. Explain any four issues.
- 4) Define biodiversity. What are the various threats of biodiversity ?

III. Answer **any two** :

(2×4=8)

- 5) Write notes on sedimentary cycles.
- 6) Explain importance of mangroves in coastal Ecosystem.
- 7) Laws of limiting factors.
- 8) Explain different levels of biodiversity.

IV. Answer **any six** :

(6×2=12)

- 9) Distinguish commensalism and parasitism.
- 10) Explain ecological pyramids.
- 11) Note on Ecological indicators.
- 12) Describe growth curves.

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K17U 0396

13) Name any two important acts related with wild life conservation.

14) What do you mean by Eutrophication ?

15) Explain Environmental Impact Statement (EIS).

16) Note on food web.

(4×1=4)

V. Answer the following :

17) Name the zone of biosphere reserve where no human activity is permitted.

18) What do you mean by endangered species ?

19) Red data list are published by

20) a) Name one free living nitrogen fixing bacteria.

b) The study of fresh water habitats is called _____

c) The biotic community together with the physical environment forms an interacting system called _____

d) Acid rain consist 60 – 70% of oxides of _____
