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(6th Semester)

ZOOLOGY

Paper No. : ZL-XII (B)

(Animal Ecology and Wildlife)

Full Marks : 55

Time : 2½ hours

(PART : B—DESCRIPTIVE)

(Marks : 35)

*The figures in the margin indicate full marks
for the questions*

1. Explain in brief food chain and food webs. 7

Or

Describe the energy flow in lake ecosystem. 7

2. Describe the different processes involved in phosphorus cycle. 7

Or

Describe the steps involved in sulphur cycle. 7

3. Write short notes on greenhouse effect and law of limiting factors. $3\frac{1}{2}+3\frac{1}{2}=7$

Or

Explain the general process of ecological successions. 7

4. Write short notes on species richness and species diversity. $3\frac{1}{2}+3\frac{1}{2}=7$

Or

Explain Sorensen and Shannon-Wiener indices. 7

5. What is the natural resource? Write about conservation of soil. $2+5=7$

Or

Explain anthropogenic activity and effects on environment. 7

Subject Code : ZOO/VI/12 (b)

Booklet No. A

Date Stamp

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To be filled in by the Candidate

DEGREE 6th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**

Subject

Paper

INSTRUCTIONS TO CANDIDATES

- 1. The Booklet No. of this script should be quoted in the answer script meant for descriptive type questions and vice versa.**
- 2. This paper should be ANSWERED FIRST and submitted within 45 minutes of the commencement of the Examination.**
- 3. While answering the questions of this booklet, any cutting, erasing, over-writing or furnishing more than one answer is prohibited. Any rough work, if required, should be done only on the main Answer Book. Instructions given in each question should be followed for answering that question only.**

To be filled in by the Candidate

DEGREE 6th Semester
(Arts / Science / Commerce /
.....) Exam., **2017**

Roll No.

Regn. No.

Subject

Paper

Descriptive Type

Booklet No. B

*Signature of
Scrutiniser(s)*

*Signature of
Examiner(s)*

*Signature of
Invigilator(s)*

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ZOO/VI/12 (b)

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(6th Semester)

ZOOLOGY

Paper : ZL-XII (B)

(Animal Ecology and Wildlife)

(PART : A—OBJECTIVE)

(Marks : 20)

SECTION—A

(Marks : 5)

Each question carries 1 mark

Put a Tick (✓) mark against the correct answer in the corresponding brackets :

1. Basically _____ types of food chain are recognized.

(a) 2 ()

(b) 3 ()

(c) 4 ()

(d) 5 ()

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(2)

2. Which of the following is denitrifying bacteria?

- (a) *Azotobacter* ()
- (b) *Clostridium* ()
- (c) *Pseudomonas* ()
- (d) None of the above ()

3. Which of the following is the gas mainly responsible for greenhouse effect?

- (a) CO ()
- (b) CO₂ ()
- (c) SO₂ ()
- (d) NO₂ ()

4. In ecology, polyspecific population is known as

- (a) density ()
- (b) group ()
- (c) species ()
- (d) community ()

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(3)

5. The Wildlife Conservation Act was enacted by the Government of India in

(a) 1980 ()

(b) 1972 ()

(c) 1982 ()

(d) 1970 ()

(4)

SECTION—B

(Marks : 15)

Each question carries 3 mark

Write short notes on the following :

1. Ecosystem

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(5)

2. Nitrogen cycle

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(6)

3. Global warming

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(7)

4. Community

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(8)

5. Wildlife conservation

★ ★ ★

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