

G-3/356/22

Roll No.

III Semester Examination, January 2022

M.Sc.

BOTANY

Paper II

(Ecology-I, Ecosystem and Vegetation Ecology)

Time : 3 Hours]

[Max. Marks : 80

Note : *All questions are compulsory. Question Paper comprises of 3 Sections. Section A is objective type/multiple choice questions with no internal choice. Section B is short answer type with internal choice. Section C is long answer type with internal choice.*

SECTION A

1×8=8

(Objective Type/Multiple Choice Questions)

Choose the correct answer :

1. World distribution of primary production is minimum in :
(a) Grasslands (b) Deserts
(c) Moist forest (d) Coral reefs
2. Macro-consumers in Ecosystem are :
(a) Autotroph (b) Saprotrophs
(c) Osmotrophs (d) Phagotrophs

P.T.O.

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3. Which of the following is a premises of sustainable development ?
- (a) Structural change in economy
 - (b) Environment impact assessment
 - (c) Compatibility between ecology and economics
 - (d) Regional carrying capacity based development
4. To whom project is submitted for authorization ?
- (a) Environmental authority
 - (b) Authorization authority
 - (c) Analyzing authority
 - (d) Evaluation authority
5. Which of the following survivorship curve is shown by human population ?
- (a) Highly convex curve
 - (b) Highly concave curve
 - (c) Diagonal curve
 - (d) All of the above
6. Among the following which character is a synthetic character ?
- (a) Frequency
 - (b) Sociability
 - (c) Vitality
 - (d) Fidelity

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7. Sucession initiated on sand is known as :
- (a) Lithosphere
 - (b) Psammosere
 - (c) Halosere
 - (d) Hydrosere
8. Inter community change is a feature of which of the following type of vegetation development ?
- (a) Cyclic changes
 - (b) Non cyclic changes
 - (c) Random changes
 - (d) Systematic changes

SECTION B

6×4=24

(Short Answer Type Questions)

Note : Answer the following questions in 250 words.

Unit-I

1. Describe the components of Ecosystem.

Or

Write a note on Ecological efficiencies.

Unit-II

2. Write a brief note on ecosystem restoration.

Or

Write a concise note on plant invasion.

Unit-III

3. Write short note on quantitative characters of plant community.

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Or

Unit-IV

- Or*

SECTION C

(Long Answer Type Questions)

Unit-I

- Or*

Unit-II

- Or*

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Unit-III

- Or*

Unit-IV

- Or*

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