

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 3

SEME-210

M.Sc. (IInd Semester) Examination, 2022

ENVIRONMENTAL SCIENCE

Paper - FS-ENV-202

(Desert Ecology)

Time : 1½ Hours]

[Maximum Marks : 40

Note :- The Question paper contains three Sections.

Section-A

(Marks : 1 × 10 = 10)

Note :- Answer all the *ten* questions (Answer limit **50** words). Each question carries **1** mark.

Section-B

(Marks : 3 × 5 = 15)

Note :- Answer any *five* questions by selecting at least *one* question from each Unit (Answer limit **200** words). Each question carries **3** marks.

Section-C

(Marks : 5 × 3 = 15)

Note :- Answer any *three* questions by selecting *one* question from each Unit (Answer limit **500** words). Each question carries **5** marks.

Section-A

1. (i) Define Eutrophication.
- (ii) What is an Oasis ?

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- (iii) Define Ecosystem.
- (iv) What is natural environment ?
- (v) What is population density ?
- (vi) Define Pyramid of numbers.
- (vii) What is 'Biotic Potential' ?
- (viii) Define Natality.
- (ix) Give the meaning of 'ecotone' with example.
- (x) Give *two* examples of invasive plant species.

Section-B

Unit-I

- 2. What do you mean by desertification ? Give a brief about cause of desertification.
- 3. Write characteristics of major deserts of the world.
- 4. What do you mean by Arid climate ?

Unit-II

- 5. Differentiate between drought and famine.
- 6. Define aridity index.
- 7. Give a brief about survival strategies adapted by desert plants.

Unit-III

- 8. Define dry land farming.
- 9. Describe modern approaches of resources management in deserts.
- 10. Give any *two* impacts of canal irrigation on ecology of Indian desert.

Section–C

Unit–I

11. Explain the distribution and characteristics of major deserts of the world.
12. Define arid climate. Give a brief about characteristics of Arid climate.

Unit–II

13. What is an endangered species ? Explain conservation strategies of endangered plant and animal species of Indian desert.
14. Define 'Desert ecosystem'. What are desert adaptations that can be seen among plants and animals of Indian desert ?

Unit–III

15. Explain Desertification. What are causes of desertification and approaches to resist desertification ?
16. Define semi-arid lands and major ecological problems facing by the semi-arid zone.