UG (CBCS) EVEN SEMESTER EXAMINATION, 2023

EDUCATION (B.Sc. B.Ed.)

BOTANY (HONOURS)

2nd Semester

Course No. : BSBH - 202

(Diversity of Phanerogams - Angiosperms)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions

(Answer five questions)

1. What are the different systems of classification? Describe briefly Engler and Prantl system of classification with merits and demerits. 2+4+4=10

Or

2. (a) What are the phyletic principles used by Takhtajan to evaluate the degree of advancement of flowering plants. 3

   (b) Compare Engler and Prantl system of classification with Takhtajan's system of classification. 7

3. Describe the characteristic features and economic important of following families along with suitable diagram 5+5=10

   (a) Fabaceae

   (b) Solanaceae

Or

4. (a) Write the salient features of the family Aracaceae and mention two economically important plants of the family. 4+1=5

   (b) Write the characteristic differences between poaceae and cyperaceae. 5

5. Write short notes on the following : 5x2=10

   (i) Food chain and food web

   (ii) Flow of energy in an ecosystem

Or

6. (a) Add a note on different biotic and abiotic factors of an ecosystem. 5

   (b) Discuss briefly about the interaction of biotic and abiotic factors of an ecosystem. 5

7. (a) What is ecological succession? 2

   (b) Discuss briefly the causes of succession and mention the types of succession with examples. 4+4=8

Or

8. Write short notes on any two of the following : 5x2=10

   (i) Plant indicator

   (ii) Hydrosere

   (iii) Xerosere

9. (a) Write a short note on the role of herbaria in taxonomic study. 7

   (b) What is the standard size of herbarium sheet? Name two important herbaria in India. 1+2=3

Or

10. (a) Define Botanical Survey of India. 2

    (b) Write in brief on any one Botanical Garden of India. Add a note on the role of Botanical Gardens ex situ conservation of rare and endemic plants. 4+4=8

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