

23BBO351
UG PROGRAM (4 YEARS HONORS) WITH SINGLE MAJOR
AT THE END OF THIRD SEMESTER
BOTANY-VASCULAR PLANTS (Minor)
(w.e.f. Admitted Batch 2023-24)

Time: 3Hours

Maximum: 70marks

Section - A

Answer any FIVE questions.

5 x 4

1. Heterospory and seed habit.
2. Angiosperms characteristics of Gnetum plant.
3. Define species concept and its relevance in taxonomy.
4. Binomial nomenclature.
5. Economic importance of the Poaceae family.
6. Role of cytogenetics in plant systematics.
7. What are homology and analogy in plant taxonomy?
8. Discuss the economic importance of the Arecaceae family.

Section - B

Answer All questions.

5 x 1

9. a) Explain the process of stellar evolution in Pteridophytes.
(Or)
b) Discuss the economic importance of Pteridophytes.
10. a) Describe the leaf anatomy of Gnetum.
(Or)
b) Describe the leaf anatomy of Cycas.
11. a) Discuss the Bentham and Hooker system of classification.
(Or)
b) Write a detailed account of APG-IV classification and its significance.
12. a) Give a systematic description and economic significance of the Cucurbitaceae family.
(Or)
b) Describe the morphology and economic uses of the Asteraceae family.
13. a) Discuss the importance of Numerical taxonomy in plant systematics.
(Or)
b) Discuss the contributions of phytochemistry to the understanding of plant systematics.

23BBO251

UG PROGRAM (4 YEARS HONORS) WITH SINGLE MAJOR
AT THE END OF SECOND SEMESTER
BOTANY-NON-VASCULAR PLANTS (Minor)
(w.e.f. Admitted Batch 2023-24)

Time: 3Hours

Maximum: 70marks

SECTION -A

Answer any FIVE questions.

5x4= 20

1. Pigmentation in Algae.
2. Lateral conjugation in *Spirogyra*.
3. *Vaucheria* thallus structure.
4. Heterothallism in fungi.
5. Asexual reproduction in *Penicillium*.
6. Ecological importance of Lichens.
7. Protonema in *Funaria*.
8. Gemma cups in *Marchantia*.

SECTION -B

Answer All the questions.

5x10= 50

9. a) Thallus organization in Algae.
(Or)
b) Economic importance of Algae.
10. a) Life cycle of *Ectocarpus*.
(Or)
b) Reproduction in *Polysiphonia*.
11. a) Economic importance of Fungi.
(Or)
b) Mode of nutrition in fungi.
12. a) Life cycle of *Phytophthora*.
(Or)
b) Life cycle of *Puccinia*.
13. a) Give a detailed note on sporophyte of *Marchantia*.
(Or)
b) Evolution of sporophyte in Bryophytes.

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UG PROGRAM (4 YEARS HONOURS) WITH SINGLE MAJOR

BOTANY- VASCULAR PLANTS (B.Sc HONOURS-MAJOR)

Time: 3 Hours

(w.e.f. Admitted Batch 2023-24)

Maximum: 70 Marks

Answer any Five Questions:

Section-A

1. Smith classification of Pteridophytes.

2. Economic importance of Gymnosperms.

3. Typification.

4. Structure of Head Inflorescence.

5. Types of alkaloids.

6. The relationship between Gnetum with Angiosperms.

7. Economic Importance of Palmae.

8. Characteristics of Angiosperms.

Answer All Questions.

Section-B

9. a) Give an account on Heterospory & Seed habit.

(Or)

b) Explain the life history of Lycopodium.

10. a) Give an account on general characters of Gymnosperms.

(Or)

b) Describe the life history of Cycas.

11. a) Give an account on Bentham & Hooker classification.

(Or)

b) Describe the APG IV system of classification.

12. a) Describe the vegetative & floral characters of Poaceae & mention its economic importance.

(Or)

b) Describe the vegetative & floral characters of Asclepiadaceae.

13. a) Explain the role of Cytology in relation to Plant Taxonomy.

(Or)

b) Explain the role of Plant embryology in relation to Plant Taxonomy.

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23BBO452

UG PROGRAM (4 YEARS HONORS) WITH SINGLE MAJOR
AT THE END OF FOURTH SEMESTER
BOTANY-PLANT ECOLOGY, BIODIVERSITY AND PHYTOGEOGRAPHY (Minor)
(w.e.f. Admitted Batch 2023-24)

Time: 3 Hours

Maximum: 70 Marks

Section-A

5x4=20

Answer any Five Questions.

1. Nitrogen cycle.
2. Ecads.
3. Carbon Foot print.
4. Types of Biodiversity.
5. Importance of Phytogeography.
6. Food web.
7. Kyoto protocol.
8. Ozone layer depletion.

Section- B

5x10=50

Answer All Questions.

9. a) Write an essay on Pond Ecosystem.
(Or)
b) Give an account on effect of Light & Temperature on plant growth.
10. a) Give an account on Xerosere.
(Or)
b) Define community ecology. Describe the characteristics of community.
11. a) What is Global warming. Explain the causes & effects of global warming.
(Or)
b) Define "Soil Erosion" & mention the causes & controlling measures of it.
12. a) Explain the Threats to Biodiversity.
(Or)
b) Define Bio-diversity & mention the ecological importance of Biodiversity.
13. a) Define "Endemism". Describe the types & causes of Endemism.
(Or)
b) Write an essay on phytogeographic regions of World.

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23BBO451
UG PROGRAM (4 YEARS HONORS) WITH SINGLE MAJOR
AT THE END OF FOURTH SEMESTER
BOTANY-ANATOMY AND EMBRYOLOGY OF ANGIOSPERMS (Minor)
(w.e.f. Admitted Batch 2023-24)

Time: 3 Hours

Maximum: 70 Marks

Section-A

Answer any Five Questions.

5x4=20

1. Tunica Corpus theory.
2. Types of stomata.
3. Scope of palynology.
4. Structure of matured female gametophyte.
5. Advantages of Apomixis.
6. Mixed pollination
7. Applications of anatomy in Pharmacognosy.
8. Seed dispersal mechanism

Section-B

Answer All Questions.

5x10=50

9. a) Give an account on permanent Simple tissues.
(Or)
b) Give an account on Special tissues in plants.
10. a) Give an account on Vascular tissue system in Angiosperms.
(Or)
b) Explain the structure & Economic Importance of Red sanders & Rose wood.
11. a) Give an account on Micro sporogenesis & development of male gametophyte
(Or)
b) What is pollen viability? Explain the methods of testing pollen viability.
12. a) Explain the process of double fertilization in angiosperms.
(Or)
b) Define Endosperm & Explain the various types of Endosperms.
13. a) Define Apomixis & Explain the types & applications of Apomixis.
(Or)
b) Explain the development of dicot embryo.

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AT THE END OF FOURTH SEMESTER
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13. a) Define "Endemism". Describe the types & causes of Endemism.
(Or)
b) Write an essay on phytogeographic regions of World.

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(Or)
b) Explain the development of dicot embryo.
