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B.Sc. V Semester Degree Examination, Nov./Dec. - 2018

BOTANY

Internal Structure, Development And Reproduction in Flowering Plants

(Plant Anatomy And Embryology)

Paper-5.1

Time : 3 Hours Maximum Marks : 80

Instructions to Candidates:

1. Answer all questions from PART-I
2. Answer any **TEN** questions from PART-II
3. Labelled diagrams will enhance value of answer.

PART-I

I. Answer the following questions. **(8×2=16)**

1. What is endosperm? Mention the function.

2. What is pollenkitt? Write its significance.

3. What is parthenocarpy?

4. What is polyembryony?

5. Draw a neat labelled diagram of lenticel.

6. What are Tyloses? Mention the importance.

7. What are passage cells? Mention the function.

8. What are growth rings? Mention the importance.

PART-II

II. Answer any **FOUR** of the following. **(4×4=16)**

9. Write about Indian Embryologist B.G. L Swamy.

10. Write the significance of palynology.

11. Explain the types of ovules with diagram and example.

12. Explain food conducting tissue with diagram.

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13. Explain the anatomy of Dicot root with diagram.
14. Explain about transfer cells.

III. Answer any **SIX** of the following questions. **(6×8=48)**

15. Explain Intrastelar secondary growth in dicot stem.
16. Explain dermal tissue system.
17. What are simple permanent tissues? Explain Scleren chyma.
18. Draw a neat labelled diagram of anatomy of Boerrahavia stem.
19. What is cross pollination? Explain entemophilly with example.
20. Explain the development of Typical female gametophyte.
21. Explain the process of double fertilization.
22. Describe the development of Dicot embryo with neat labelled diagrams.

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B.Sc V Semester Degree Examination, Oct./Nov. - 2018

BOTANY

Ecology And Environmental Biology Conservation and Management of Plant Resources

Paper - 5.2

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. PART - I is **compulsory**.
2. Answer any **10** questions from PART - II.
3. Labelled diagrams will enhance the value of Answer.

PART - I

I. Answer the following in brief. **(8×2=16)**

1. What are endemic species?
2. What is Bio magnification?
3. Which sound above what level are considered hazardous noise pollution?
4. What are abiotic components?
5. Which organisms are called as nature Scavengers?
6. What is thorn forest? Give two examples.
7. What is smog?
8. What is Minamata disease?

PART-II

II. Answer any **FOUR** of the following. **(4×4=16)**

9. Explain about parasitic angiosperms.
10. Explain Nuclear winter.
11. Explain the activities of WWF.
12. Explain Acid rain.
13. Explain anatomical adaptation in halophytes.
14. Explain Radioactive pollution. Explain its effects and control measures.

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III. Answer any **SIX** of the following. **(6×8=48)**

15. What is Xerosere? Explain its stages.
16. Explain vegetation of Karnataka.
17. What is Biological diversity? Explain Genetic and species diversity.
18. Explain Renewable energy resources.
19. Explain the causes and control measures of soil pollution.
20. What are succulents? Explain morphological and anatomical adaptations.
21. Explain Terrestrial plant communities.
22. Explain about concepts and components of Ecosystem and explain forest ecosystem.