

Third Year B.Sc., Degree Examinations

September/October 2015

(Directorate of Distance Education)

BOTANY

**DSC290 : Paper III – Morphology, Taxonomy of Angiosperms,
Economic Botany and Cytogenetics**

Time: 3 hrs.]

[Max.Marks:75/85

- Instructions :*
- 1. Answer ALL questions.*
 - 2. Draw neat labelled diagrams wherever necessary.*
 - 3. Question No.V. is compulsory for 85 marks scheme only.*

I. Simple answer questions.

Answer in a word, or a phrase or a sentence.

10X1=10

1. What is aestivation ?
2. Write scientific name of clove.
3. What is Phyllotaxy ?
4. Write the botanical name of Ragi.
5. What is monohybrid cross ?
6. What is placentation?
7. What is Herbarium ?
8. What is pollinium ?
9. Name the family having “bearded anther”.
10. What is hypogeal germination?

II. Short answer questions.

Answer any FIVE of the following.

5X3=15

11. Describe the berry fruits.
12. Describe the structure of a typical flower with a neat labelled diagram.
13. Describe the Mendel’s laws.
14. Describe the multiple allele.
15. Write a note on Millets.
16. Describe verticillaster inflorescence.
17. Explain any three underground modified stems.

Contd...2

III. Medium answer questions.

Answer any FIVE of the following.

5X6=30

18. Write family name, scientific name and economic importance of following plants.
a) Cotton b) Custard apple c) Sugarcane.
19. Describe the family Papilionaceae and write any four scientific names of Economic important plants.
20. Describe epistaxis with suitable example.
21. Give an account on medicinal plants.
22. Describe Dihybrid cross.

IV. Long answer questions.

Answer any TWO of the following.

2X10=20

23. Describe salient features of family Palmae and Liliaceae.
24. Describe the structure and functions mitochondria.
25. Describe different types of inflorescence.
26. Describe Bentham and Hooker's System of classification.

V. Compulsory question for 85 Marks scheme only.

Answer any ONE of the following.

1X10=10

27. Describe the salient features of family Asclepiadaceae and Poaceae.
28. Write a note on oil yielding plants.

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