

C 30327

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION
NOVEMBER 2017**

[CUCBCSS UG]

Botany

BOT 5B 06—ANGIOSPERM MORPHOLOGY AND PLANT SYSTEMATICS

Time : Three Hours

Maximum : 80 Marks

Part A

I. Answer the following. All questions are compulsory.

1. What is Quinquantal Aestivation ?
2. How can you represent a Gynoecium with 5 united carpels with inferior ovary in the floral formula ?
3. Name the fruit in Poaceae.
4. Cypsella is the fruit of which family ?
5. Write an example for Cyathium.
6. What are different kinds of Phyllotaxy ?
7. Name the type of placentation in the family Solanaceae.
8. Draw the labeled structure of Pollinium.
9. Define Hierarchy.
10. Assign Menthe Piperita to the family.

(10 × 1 = 10 marks)

Part B

II. Answer the following. All questions are compulsory.

11. Draw diagrams of any four kinds of Placentations.
12. Define the Biological concept of Species.
13. Describe the Petals in Fabaceae.
14. Describe various adnations in Solanaceae.
15. Enumerate the functions of Herbaria.
16. Draw the floral diagram of Malvaceae.

Turn over

17. Describe the Androecium of Asteraceae.
18. Describe the Gynoecium of Lamiaceae.
19. Describe the inflorescence of Asteraceae.
20. What are the contributions of J.S. Gamble ?

(10 × 2 = 20 marks)

Part C

III. Answer any *six* of the following:

21. Describe various kinds of Racemose Inflorescence.
22. Spikelet with diagrams.
23. Define Typification. What is Holotype ?
24. Describe the floral characters of Disc Floret.
25. What are various kinds of aestivation ? Draw pictures and add examples.
26. Draw the LS and floral diagram of Rubiaceae.
27. Illustrate the mechanism of pollination in Asteraceae.
28. Write a short account on Artificial Plant classification? Give an example.

(6 × 5 = 30 marks)

Part D

Write essay on any *two* of the following :

29. Compare the subfamilies of Leguminosae. Add a note on their economic importance.
30. Describe different types of Fruits with suitable examples and diagrams.
31. Make an outline on the classification of Seed Plant by Bentham and Hooker. List out its merits and demerits.

(2 × 10 = 20 marks)