

**D 50621**

(Pages : 2)

Name.....

Reg. No.....

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2018**

(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.* Each question carries 1 mark :

- 1 Define pulvinus.
- 2 Provide an example for a hemicyclic flower.
- 3 Name the family having reniform anthers.
- 4 What is a monograph ?
- 5 Define free central placentation.
- 6 Name the acronym of Central National Herbarium.
- 7 Define isotype.
- 8 Cite an example for exalbuminous seeds.
- 9 What is samara ?
10. Define cladogram.

(10 × 1 = 10 marks)

**Part B**

II. Answer the following. *All questions are compulsory.* Each question carries 2 marks :

- 11 What is gynostegium ? Cite an example.
- 12 Distinguish between diplostemonous and obdiplostemonous condition.
- 13 Comment on the contributions of notable herbalists in taxonomy.
- 14 Define phyllotaxy. Enumerate the types.
- 15 Give a brief account on the sexual system of classification by Linnaeus.
- 16 Give an outline of Hutchinson's classification.
- 17 Discuss the major contributions of J. S. Gamble.
- 18 Describe the essential organs of Annonaceae.

**Turn over**

- 19 Differentiate between indented and bracketed key.
- 20 Discuss the medicinal importance of Acanthaceae.

(10 × 2 = 20 marks)

### Part C

III. Answer any *six* of the following. Each question carries 5 marks :

- 21 Describe the inflorescence of Poaceae with suitable diagrams.
- 22 Give a brief account on important Botanical gardens in India.
- 23 Briefly describe numerical taxonomy.
- 24 Give an account on aggregate and multiple fruits.
- 25 List out the diagnostic features of Myrtaceae.
- 26 Give an account on herbarium preparation.
- 27 What is aestivation ? Describe the various types with suitable sketches.
- 28 Describe the cohesion and adhesion of stamens.

(6 × 5 = 30 marks)

### Part D

IV. Write essays on any *two* of the following. Each question carries 10 marks :

- 29 With the help of suitable diagrams and examples describe the racemose and cymose types of inflorescences.
- 30 What is a natural system of classification? Give a brief account on the type of natural system of classification you have studied. List out the merits and demerits of this system.
- 31 Write an essay on the vegetative and floral features of Asteraceae. Enumerate the reasons for considering it as an advanced family.

(2 × 10 = 20 marks)