

D 51300-S

(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER (CUCBCSS—UG) [SPECIAL] EXAMINATION
NOVEMBER 2018**

Botany

**BOT 3C 03—SYSTEMATIC BOTANY, ECONOMIC BOTANY, PLANT BREEDING AND
HORTICULTURE**

Time : Three Hours

Maximum : 64 Marks

Part A

Answer all questions.

I. Answer in *one word*. Each question carries 1 mark :

- 1 Define free central placentation.
- 2 Give an example for natural system of classification.
- 3 Monothealous anthers are found in ——— family.
- 4 Define Pomology.
- 5 Name a botanic garden in India.
- 6 What is patch budding ?
- 7 Define didynamous condition.
- 8 What is catkin ?
- 9 What is the morphology of useful part of Cardamom ?
- 10 Binomial of clove is ——— .

(10 × 1 = 10 marks)

Part B

Answer any seven questions.

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

- 11 What is hypanthodium ?
- 12 Describe the binomial nomenclature.
- 13 Describe the gynoecium of Fabaceae.
- 14 Explain the types of aestivation you have studied.
- 15 Comment on the valid publication of botanical names.

Turn over

- 16 Write the binomial, family and morphology of the useful part of the following plants :
- (a) Gingelly. (b) Green gram.
- 17 What is hybridization ? Mention the steps involved.
- 18 Comment on the medicinal importance of *Curcuma longifolia*.
- 19 Give an account on the cohesion of stamens.
- 20 Describe tongue grafting.

(7 × 2 = 14 marks)

Part C

III. Answer any six of the following. Each question carries 4 marks :

- 21 Give a brief account on 'International Code of Botanical Nomenclature'.
- 22 Describe air layering with diagrams.
- 23 Describe the types of cymose inflorescence with diagrams.
- 24 Define floral diagram. Draw floral diagram for a named flower belongs to Rubiaceae.
- 25 Give the binomial, family, morphology of the useful part and uses of any two cereals.
- 26 Differentiate between mass selection and pure line selection.
- 27 Give the salient features of Poaceae.
- 28 Describe herbarium techniques.

(6 × 4 = 24 marks)

Part D

V. Write essay on any two of the following. Each question carries 8 marks :

- 29 Write an essay on modern trends in Taxonomy.
- 30 Give an outline of Bentham and Hooker's system of classification. Add a note on its merits and demerits.
- 31 Describe the vegetative and floral features of Apocynaceae. Give an account on economic importance of the family.

(2 × 8 = 16 marks)