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Name.....

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Reg. No.....

THIRD SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2015

(CUCBCSS-UG)

Complementary Course

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

Time : Three Hours

Maximum : 64 Marks

I. Answer *all* questions. Answer in a single word (1 mark each) :

- 1 Name the family of *Rauvolfia serpentina*.
- 2 Give an example for artificial system of classification.
- 3 Central National Herbarium is located at :
- 4 Sudden heritable changes are called :
- 5 Arrangement of leaf on stem is known as :

Fill in the blanks :

- 6 Flower is a modified _____.
- 7 Axis of an inflorescence is called _____.
- 8 Interpetiolar stipule is a feature of the family _____.
- 9 Commercial name of *Sesamum indicum* is _____.
- 10 Cyathium is a _____ type of inflorescence.

(10 × 1 = 10 marks)

II. Answer any *seven* questions. Short answers (2 marks each) :

- 11 Catkin inflorescence.
- 12 Botanic gardens.
- 13 Explain marginal placentation with examples.
- 14 What is floral formula ?
- 15 Descendingly imbricate aestivation with example.
- 16 Androecium of Malvaceae.
- 17 Binomial and family of Tea.
- 18 What is Cyto taxonomy ?
- 19 Name two uses of *Curcuma longifolia*.
- 20 Natural system of plant classification.

(7 × 2 = 14 marks)

Turn over

Part C

III. Answer any *six* questions. Short Essay (4 marks each) :

- 21 Write the binomial, family and morphology of useful part of the following :—
(a) Wheat ; (b) Pepper.
- 22 Explain breeding for disease resistance.
- 23 Describe the characteristic feature of the family Malvaceae.
- 24 Describe Hybridization.
- 25 What is a botanic garden ? Write notes on any *one* botanic garden in South India.
- 26 What is a Herbarium ? Describe the various techniques in herbarium preparation.
- 27 Explain the various types of vegetative propagation.
- 28 Floral characters of the family Euphorbiaceae.

(6 × 4 = 24 marks)

IV. Answer any *two* questions - Essay (8 marks each) :

- 29 Describe the modern trends in plant taxonomy.
- 30 Write an essay regarding the various types of inflorescence.
- 31 Describe with diagram the salient features of the family Apocynaceae.

(2 × 8 = 16 marks)