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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, December 2017
(First Degree Programme under CBCSS)
Complementary Course
BO 1331 : SYSTEMATIC BOTANY, ECONOMIC BOTANY, ETHNOBOTANY, PLANT BREEDING
(2014 Admission Onwards)

Time : 3 Hours Max. Marks : 80

I. Write short notes on the following (**All** questions are **compulsory**)

1) What is Herbarium ?
2) Give the Binomial of sugarcane.
3) What is Jeevani ?
4) What is Heterosis ?
5) Define Acclimatization.
6) What is imbricate aestivation ?
7) Comment on Artificial system of plant classification.
8) What is Syngynecious stamen ?
9) Define Caryopsis.
10) What is Intervarietal hybridization ? **(10×1 = 10 Marks)**

II. Answer **any eight** of the following :

11) What is emasculation ? Give two important methods employed in it.
12) Describe the inflorescence characteristic of genus Euphorbia.
13) Write an account on polyploidy breeding.
14) Give an account on tropical fruits.
15) Give the binomial of two tuber crops.

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16) Explain the parts of a flower.

17) Describe the significance of Taxonomy.

18) Describe floral characters of Asteraceae.

19) Write the economic importance of the family Solanaceae.

20) Briefly explain the stamina tube in Malvacae.

21) Describe the basic rules of binomial nomenclature.

22) Describe the primitive characters of the family Annonaceae. **(8×2 = 16 Mar**

III. Answer **any six** of the following :

23) What is ethnobotany ? Mention the ethnobotanical importance of neem.

24) Write an account on cymose inflorescence.

25) Explain floral diagram and floral formula with example.

26) Give the binomial, family and morphology of useful parts of cereals and millets.

27) Describe the different types of selection in plant breeding.

28) Describe the Bentham and Hooker system of classification.

29) What is placentation ? Explain the different types with examples.

30) Explain the floral characters of Rubiaceae.

31) Write a note on breeding for disease resistance. **(6×4 = 24 Mar**

IV. Write essay on **any two** of the following :

32) What is hybridization ? Mention its procedure.

33) Give the important characters of the family Leguminosae. Compare its sub families.

34) Give an account of the different types of inflorescence.

35) Give an account on the botanical name, family morphology of useful part and uses of medicinal plants and oil yielding plants. **(2×15 = 30 Mar**

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