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Reg. No. : .....

Name : .....

Third Semester B.Sc. Degree Examination, December 2016
First Degree Programme under CBCSS
Complementary Course – BOTANY
BO 1331 : Systematic Botany, Economic Botany, Ethnobotany and Plant Breeding
(2014 Admission Onwards)

Time : 3 Hours Max. Marks : 80

I. Answer the following. **All** questions are **compulsory**.

1) What is vexillary aestivation ?

2) How can you represent an androecium with 10 united stamens in the floral formula ?

3) Name the fruit in *Citrus*.

4) From which plant clove is obtained ?

5) Name the most primitive tribe in Kerala.

6) What is plant introduction ?

7) Name the structure of anthers in Asteraceae.

8) Name a family with monadelphous stamens.

9) Define back cross.

10) What is a hybrid ? **(10×1 = 10 Marks)**

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

11) Name 5 economically important plants belonging to Solanaceae.

12) Write the botanical of any two oil yielding plants grown in Kerala.

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floral formula of Verbenaceae.

14) Describe the gynoecium of Apocynaceae.

15) What are the inflorescence of Euphorbiaceae ?

16) Write the binomial of any three spices you have studied.

17) Write the binomial, family and morphology of any two medicinal plants in Kerala.

18) Describe the androecium of Malvaceae.

19) Define polyploidy breeding.

20) Describe panicle.

21) What is pure line ?

22) Describe the fruit of Poaceae.

(8×2 = 16 Mark

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

23) Describe the floral characters of Araceae.

24) What are various kinds of Aestivation ? Draw pictures and add examples.

25) Draw the LS and floral diagram of Malvaceae.

26) Describe the floral features of Liliaceae.

27) What are the different types of plant selection ?

28) Compare the subfamilies of Leguminosae with regard to Androecium.

29) What are the fundamentals of Phylogenetic classification.

30) Write the binomial, family and morphology of the following plants.

a) Asafoetida b) Curcumin c) Henna d) Jackfruit

31) Describe the structure of spikelet with neat diagrams.

(6×4 = 24 Mark

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

32) Describe the salient features of Asteraceae with diagrams. Add a note on their economic importance.

33) Describe the process of herbarium preparation. Add a note on its functions.

34) Describe different types of racemose inflorescences with suitable examples and diagrams.

35) Make an outline on the classification of seed plant by Bentham and Hooker. List out the merits and demerits. **(2×15 = 30 Marks)**

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