

B.Sc. BOTANY
THIRD SEMESTER (REPEAT)
ANGIOSPERM TAXONOMY
BSB-301
[USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

1. A collection, cultivation, preservation and display of a wide range of plants labelled with their botanical names:
 - a. Arbairium
 - b. Herbarium
 - c. Botanical garden
 - d. All of the above
2. One of the largest herbaria in India is situated in:
 - a. Mumbai
 - b. Lucknow
 - c. Kolkata
 - d. Delhi
3. A leaf with stalk is called:
 - a. Petiolate
 - b. Sessile
 - c. Stalked
 - d. None of these
4. Arrangement of leaf in the stem is known as:
 - a. Venation
 - b. Aestivation
 - c. Phyllotaxy
 - d. All of these
5. Parallel venation is seen in:
 - a. Monocot angiosperm
 - b. Gymnosperm
 - c. Dicot angiosperm
 - d. Pteridophyta
6. Identify the female reproductive organ.
 - a. Sepal
 - b. Stamen
 - c. Petal
 - d. Carpel
7. Union of male and female gamete is called:
 - a. Fertilisation
 - b. Aestivation
 - c. Pollination
 - d. All of these
8. Carolous Linnaeus proposed:
 - a. Natural system of classification
 - b. Artificial system of classification
 - c. Phylogenetic system of classification
 - d. All of these
9. A group of organism that can reproduce naturally with one another:
 - a. Species
 - b. Family
 - c. Genus
 - d. Order
10. Name the highest unit of classification.
 - a. Division
 - b. Class
 - c. Kingdom
 - d. Order

(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

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| 1. Write the systematic position and characteristics of the family Zingiberaceae or Poaceae. | 2+8=10 |
| 2. Write about the systems of classification. Write the features of Bentham and Hooker's system of classification. | 5+5=10 |
| 3. What is aestivation? Describe different types of aestivations with suitable diagram. | 10 |
| 4. Write the general characters of Asteraceae or Asteraceae. | 10 |
| 5. Define herbarium. Describe the techniques of herbarium. | 2+8=10 |
| 6. What is pollination? Write differences between cross and self pollination. | 2+8=10 |
| 7. Write about any one of the following Classification systems:
a) Artificial system of classification.
b) Natural system of classification. | 10 |
| 8. Write the characters and economic importance of the family Orchidaceae. | 5+5=10 |

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