

**B.Sc. BOTANY  
THIRD SEMESTER  
ANGIOSPERM TAXONOMY  
BSB-301**

**SET  
A**

[USE OMR FOR OBJECTIVE PART]

Duration: 3 hrs.

Full Marks: 70

Time: 30 mins.

( Objective )

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

11. A complete flower has the following number of parts:
  - a. 3
  - b. 5
  - c. 2
  - d. 4
12. How many types of reproductions are there?
  - a. 3
  - b. 1
  - c. 2
  - d. 4
13. Name the primitive family of dicot angiosperm.
  - a. Asteraceae
  - b. Verbenaceae
  - c. Ranunculaceae
  - d. Lamiaceae
14. Name the advanced family of monocot angiosperm.
  - a. Orchidaceae
  - b. Musaceae
  - c. Liliaceae
  - d. Zingiberaceae
15. Which of the following is known as "Grass family"?
  - a. Cyperaceae
  - b. Poaceae
  - c. Orchidaceae
  - d. Liliaceae
16. Mathematical representation of a flower is called:
  - a. Floral diagram
  - b. Floral description
  - c. Floral formula
  - d. All of these
17. "Family" of a species is ended with "suffix":
  - a. -aceae
  - b. -ades
  - c. -ales
  - d. -phyta
18. Pollengrains are produced inside:
  - a. Anther
  - b. Stigma
  - c. Ovary
  - d. Connective
19. Who proposed "Binomial Nomenclature"?
  - a. H. John Hutchinson
  - b. Takhtajan
  - c. Carolous Linnaeus
  - d. None of these
20. Anther is a part of:
  - a. Stamen
  - b. Sepal
  - c. Carpel
  - d. Peatl

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**( Descriptive )**

Time : 2 hr. 30 mins.

Marks : 50

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

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: 10
  - a) Artificial system of classification.
  - b) Natural system of classification.
8. Write the characters and economic importance of the family Orchidaceae. 5+5=10

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