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:

 $1 \times 20 = 20$

- A collection, cultivation, preservation and display of a wide range of plants labelled with their botanical names:
 - a. Arbaium

- 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
- 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 d. Pteridophyta
- c. Dicot angisoperm
- 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. Speciesc. Genus

b. Family

- d. Order
- 10. Name the highest unit of classification.
 - a. Division

b. Class

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c. Kingdom

d. Order

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

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(Descriptive)

Time: 2 hr. 30 mins.		
	[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: a) Artificial system of classification. b) Natural system of classification.	10
8.	Write the characters and economic importance of the family	5+5=10

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