

Write the following information in the first page of Answer Script before starting answer

ODD SEMESTER EXAMINATION: 2020-21

Exam ID Number _____

Course _____ Semester _____

Paper Code _____ Paper Title _____

Type of Exam: _____ (Regular/Back/Improvement)

Important Instruction for students:

1. Student should write objective and descriptive answer on plain white paper.
2. Give page number in each page starting from 1st page.
3. After completion of examination, Scan all pages, convert into a single PDF, rename the file with Class Roll No. (2019MBA15) and upload to the Google classroom as attachment.
4. Exam timing from 10am – 1pm (for morning shift).
5. Question Paper will be uploaded before 10 mins from the schedule time.
6. Additional 20 mins time will be given for scanning and uploading the single PDF file.
7. Student will be marked as ABSENT if failed to upload the PDF answer script due to any reason.

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

Duration : 3 hrs.

Full Marks : 70

(PART-A: Objective)

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1×20=20

1. A complete flower has following organs
 - a. Sepals and petals
 - b. Sepals, petals, stamen and carpel
 - c. Stamens and carpels
 - d. All of the above
2. One of the largest herbarium is situated in
 - a. Geneva
 - b. Berlin
 - c. Kew
 - d. Sweden
3. A leaf with stalk is called
 - a. Petiolate
 - b. Apetiolate
 - c. Pedicillate
 - d. None of these
4. Arrangement of vein in the monocot leaf is
 - a. Phyllotaxy
 - b. Reticulate venation
 - c. Parallel venation
 - d. All of these
5. Reticulate venation is seen in
 - a. Monocot angiosperm
 - b. Gymnosperm
 - c. Dicot angiosperm
 - d. Pteridophyta
6. Identify the male reproductive organ
 - a. Sepal
 - b. Carpel
 - c. Petal
 - d. Stamen
7. Union of male and female gamete is called
 - a. Fertilisation
 - b. Aestivation
 - c. Pollination
 - d. All of these
8. Bentham and Hooker proposed
 - a. Artificial system of classification
 - b. Natural system of classification
 - c. Phylogenetic system of classification
 - d. All of these
9. Name the smallest unit of classification
 - 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 reproduction 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 "Sedgw family"
- a. Poaceae
 - b. Cyperaceae
 - 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. "Order" of a genus is ended with "suffix"
- a. -aceae
 - b. -ades
 - c. -ales
 - d. -phyta
18. Who is known as father of "Botanical Nomenclature"
- a. Carolous Linnaeus
 - b. Takhtajan
 - c. H. John Hutchinson
 - d. Bentham and Hooker
19. Who proposed "Artificial system of classification"
- a. H. John Hutchinson
 - b. Takhtajan
 - c. Carolous Linnaeus
 - d. None of these
20. Stigma is part of
- a. Stamen
 - b. Sepal
 - c. Carpel
 - d. Peatl

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(PART-B : Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

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

1. Define fertilisation. Describe the process of double fertilisation with suitable diagram. 2+6+2
=10

2. a. Write about Rules of nomenclature. 5+5=10
b. Define floral diagram and floral formula.

3. Write about *any one* of the following Classification system 10
 - a. Phylogenetic system of classification.
 - b. Natural system of classification.

4. Why Orchidaceae is regarded as advanced family among the monotyledon? 10

5. Name two Indian Herbaria. Describe the techniques of herbarium. 2+8=10

6. What is phyllotaxy? Describe different types of phyllotaxy with suitable diagram. 2+8=10

7. Describe different parts of a complete flower with suitable diagram. 10

8. Write short note on 5+5=10
 - a. Inflorescences.
 - b. Pollination.

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