

M.Sc. BOTANY
FOURTH SEMESTER
ANGIOSPERM TAXONOMY
MSB-403 C

(Use separate answer scripts for Objective & Descriptive)

Duration : 3 hrs.

Full Marks : 70

[PART-A : Objective]

Time : 20 min.

Marks : 20

Choose the correct answer from the following:

1x20=20

1. 'Orchids of India' written by A. S. Rao was published in:
a. 1977
b. 1978
c. 1979
d. 1980
2. Vavilov divided Hindustan centre of origin in:
a. 1934
b. 1935
c. 1936
d. 1937
3. Rostellum is present in:
a. Asteraceae
b. Orchidaceae
c. Solanaceae
d. None
4. Northern circle of B.S.I is situated at:
a. Lucknow
b. Dehradun
c. Pune
d. Jodhpur
5. Herperidium fruit is present in:
a. Mango
b. Delphinium
c. Orange
d. None
6. The flowering glume of family poaceae is called:
a. G II
b. Lemma
c. Lodicules
d. Palea
7. Orchid plants grow on the rocky embankment called:
a. Epiphyte
b. Terrestrial
c. Epilithic
d. None
8. "Kaempferia galangal" belongs to the family:
a. Cannaceae
b. Zingiberaceae
c. Agaraceae
d. None
9. Which is one of the most primitive family?
a. Orchidaceae
b. Ranunculaceae
c. Nymphaeaceae
d. None
10. Spathe is present in:
a. Musaceae
b. Orchidaceae
c. Liliaceae
d. None

11. Which is true for Wildlife Conservation?
 a. In-situ conservation b. Ex-situ conservation
 c. Hunting of prey d. Both a & b
12. MAB means:
 a. Man and Biosphere programme b. Mammal and Biology programme
 c. Mammal and Biosphere programme d. Men and Biological programme
13. Which regions are included in Biodiversity Hot-spot?
 a. Sanctuary b. National park
 c. Only Hot-spot d. All of the above
14. At which place animals and plants are more protected?
 a. Botanical garden b. National park
 c. Zoos d. Sanctuary
15. Which is the Hot-spot of India?
 a. Gangetic plain b. Western Ghat
 c. Eastern Ghat d. Aravalli Mountain
16. *Polyanthus tuberosa* belongs to the family:
 a. Liliaceae b. Musaceae
 c. Zingiberaceae d. None
17. Gynobasic style is present in:
 a. Labiatae b. Verbenaceae
 c. Solanaceae d. None
18. A dichotomous key bears:
 a. Names of all Taxa.
 b. Two contrasting choices.
 c. Each of the choices is indented or fixed distance.
 d. None of the above.
19. Number of pollinia attached to a stalk called:
 a. Stipe b. Petiole
 c. Pedicel d. None
20. "Phoenix" is:
 a. Mesophyte b. Xerophytes
 c. Hydrophytes d. None

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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. Write a brief account of the Vavilov's work on origin of cultivated plants and plant domestication. 10
2. Write in brief about the primitive characters of the family Ranunculaceae. Write the economic importance of the family citing 4 plants with scientific names. 6+4=10
3. Write a concise note on family 'Asteraceae'. Point out its highly evolved characters. Mention 4 plants. 4+2+4=10
4. Describe different forest types seen in North East Region of India. 10
5. What is endemism? Write in brief about Endemism in Western Ghats. 2+8=10
6. Write briefly about the spikelet of Poaceae family with suitable diagram. 6+4=10
7. Write in brief about Taxonomic Literatures along with the major Taxonomic work in India. 6+4=10
8. Compare: 5+5=10
 a. Zingiberaceae with Musaceae.
 b. Lamiaceae with Solanaceae.

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