

M.Sc. BOTANY
THIRD SEMESTER
PLANT RESOURCE UTILIZATION &
CONSERVATION (MDC)
MSB-306 B

Duration: 3 Hrs.

Marks: 70

PART : A (OBJECTIVE) = 20
PART : B (DESCRIPTIVE) = 50

[PART-B : Descriptive]

Duration: 2 Hrs. 40 Mins.

Marks: 50

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

1. What do you mean by "Plant introduction"? Write briefly about the origin of cultivated plants. (2+8=10)
2. What are "Non timber forest products"? Write briefly about four species of bamboo of N.E India along with their scientific names. (2+8=10)
3. Write a concise note on fodder and forage crops of your area. (10)
4. Write the scientific name, family and uses of Teak, Sissoo, Pea and Cinchona. (10)
5. Write briefly about five drugs yielding plants citing their use and scientific names. (10)
6. What is biodiversity conservation? Discuss briefly the different strategies for conservation. (10)
7. Write short notes on: (*any two*) (5×2=10)
 - a. Botanical Survey of India.
 - b. Cryopreservation.
 - c. Endangered species of North-east India.

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[PART-A : Objective]

Choose the correct answer from the following:

1×20=20

1. Centre of origin of cultivated plants was proposed by:
 - a. Bentham
 - b. Vovilov
 - c. Linnaeus
 - d. None
2. Scientific name of wheat is:
 - a. *Secalecereala*
 - b. *Hordeumvulgare*
 - c. *Triticumaestivum*
 - d. None
3. Which one is a fibre?
 - a. Rice
 - b. Wheat
 - c. Maize
 - d. None
4. Teak belongs to the family:
 - a. Rubiaceae
 - b. Verbenaceae
 - c. Apocynaceae
 - d. None
5. "Reserpine" is present in:
 - a. Digitalis
 - b. Rauwolfia
 - c. Cinchona
 - d. None
6. Beverage yielding plants is:
 - a. Wheat b. Coffee
 - c. Jute d. None
7. "Gum Arabic" is obtained from:
 - a. Acacia
 - b. Astragalus
 - c. Sterculia
 - d. None
8. "Copals" are:
 - a. Oleoresins
 - b. Hard resins
 - c. Gums
 - d. None
9. "Hindustan Centre" of origin of plants include:
 - a. Indo Burma, Siam Malaya
 - b. Afghanistan
 - c. Peru Chile, Brazil
 - d. None
10. Asafoetida obtained from:
 - a. *Ferula spp.*
 - b. *Commiphora spp.*
 - c. *Dorema spp.*
 - d. None
11. The scientific name of "Jati Bans" is:
 - a. *Bambusatulda*
 - b. *B. pallida*
 - c. *B. mastersii*
 - d. None
12. "Helianthus annuus" believed to be originated from:
 - a. China
 - b. Central Asia
 - c. USA centre of origin
 - d. None
13. How many bio-geographical regions are present in India?
 - a. Three b. Four
 - c. Seven d. Ten
14. The term "Alpha diversity" refers to:
 - a. Genetic diversity.
 - b. Community and ecosystem diversity.
 - c. Species diversity.
 - d. Diversity among the plants.

UNIVERSITY OF SCIENCE & TECHNOLOGY, MEGHALAYA



[PART (A) : OBJECTIVE]

Duration : 20 Minutes

Serial no. of the
main Answer sheet

- 15. Which one of the following is not used for *ex situ* plant conservation?
 - a. Field gene bank
 - b. Seed banks
 - c. Shifting cultivation
 - d. Botanical garden

- 16. Which of the following is not a reason of unnatural extinction of species?
 - a. Environmental pollution
 - b. Soil erosion
 - c. Afforestation
 - d. Increased urbanization

- 17. A taxon facing high risk of extinction in the wild is identified as:
 - a. Endangered
 - b. Critically endangered
 - c. Vulnerable
 - d. None of these

- 18. The Botanical Survey of India (BSI) was established in the year:
 - a. 1890
 - b. 1910
 - c. 1915
 - d. 1930

- 19. In India, which type of forest among the following occupies the largest area?
 - a. Montane Wet Temperate Forest
 - b. Sub - tropical Dry Evergreen Forest
 - c. Tropical Moist Deciduous Forest
 - d. Tropical Wet Evergreen Forest

- 20. The Government of India has enacted the Wild Life (Protection) Act in the year:
 - a. 1972
 - b. 1985
 - c. 1980
 - d. 1994

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Course :

Semester : Roll No :

Enrollment No : Course code :

Course Title :

Session : 2017-18 Date :

Instructions / Guidelines

- The paper contains twenty (20) / ten (10) questions.
- Students shall tick (✓) the correct answer.
- No marks shall be given for overwrite / erasing.
- Students have to submit the Objective Part (Part-A) to the invigilator just after completion of the allotted time from the starting of examination.

Full Marks	Marks Obtained
20	

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Scrutinizer's Signature

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Examiner's Signature

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Invigilator's Signature