

**M.Sc. BOTANY**  
**Fourth Semester (Repeat)**  
**ANGIOSPERM TAXONOMY**  
**(MSB – 403 C)**

**Duration: 3Hrs.**

**Full Marks: 70**

Part-A (Objective) =20  
Part-B (Descriptive) =50

**(PART-B: Descriptive)**

**Duration: 2 hrs. 40 mins.**

**Marks: 50**

**Answer any four from Question no. 2 to 8**  
**Question no. 1 is compulsory.**

1. What do you mean by key characters? Write briefly about punched card key and dichotomous key. (2+4+4=10)
2. Compare poaceae with cyperaceae. Draw diagrammatically the spikelet of rice plant with their scientific names. (5+5=10)
3. Write in brief about the distinguishing characters of orchidaceae, mentioning four plants. (6+4=10)
4. Write briefly about the primitive characters of the family Ranunculaceae. Mention four plants of medicinally importance along with their scientific names. (6+4=10)
5. Write distinguishing features of the family Euphorbiaceae. Write 3 scientific names of important plant from the family. (6+3=10)
6. Write the distinguishing characters of the family Cucurberbitaceae. Add necessary diagrams wherever necessary. (10)
7. Give an account of the Forest and Forest types of North East India Special reference to Assam. (10)
8. Explain Endemism in Indo-Himalayan and Western Ghat Region of India. (10)

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**Duration: 20 minutes**

**Marks – 20**

**(PART A - Objective Type)**

**I. Choose the correct answer:**

**1×20=20**

1. Pair of contrasting characters are called:
  - a. Read
  - b. Couplet
  - c. Parallel key
  - d. None
2. The standard size of herbarium sheet is:
  - a. 26.75 X 40.25 cm
  - b. 28.75 X 41.25 cm
  - c. 27.75 X 41.25 cm
  - d. None
3. Rostellum is present in:
  - a. Orchidaceae
  - b. Lamiaceae
  - c. Poaceae
  - d. Cyperaceae
4. Eastern regional circle of BSI is located at:
  - a. Arunachal Pradesh
  - b. Shillong
  - c. Nagaland
  - d. None
5. Journal of Economic and taxonomic division is published from:
  - a. Jodhpur
  - b. Kolkata
  - c. Pune
  - d. None
6. Cannabis are:
  - a. Tanning Materials
  - b. Chewing Materials
  - c. Fibre yielding plant
  - d. None
7. Which one is beverage?
  - a. Apple
  - b. Mango
  - c. Jut
  - d. Tea
8. Eight main center of origin of cultivated plant was originally proposed by:
  - a. De Candolle
  - b. J.D. Hokker
  - c. Vavilov
  - d. None
9. Scientific name of wild pea is:
  - a. Pisum sativum
  - b. Lathyrus apheca
  - c. Delichos lablab
  - d. None
10. Forest research Institute is situated at:
  - a. Lucknow
  - b. Pune
  - c. Dehradun
  - d. None
11. The undifferentiated part of calyx and corolla is called:
  - a. Head
  - b. Perianth
  - c. Gynoecium
  - d. None
12. Caryotaurens belonging to the family:
  - a. Araceae
  - b. Orchidaceae
  - c. Aracaceae
  - d. None
13. Triticum aestivum was introduced in Mexico in the year:
  - a. 1529
  - b. 1629
  - c. 1729
  - d. None
14. Which family has perianth reduced to bristle?
  - a. Poaceae
  - b. Cyperaceae
  - c. Liliaceae
  - d. None

15. Anomum belongs to the family:

- a. Ranunculaceae
- b. Zingiberaceae
- c. Cannaceae
- d. None

16. World-wide recognized biodiversity hot spots in total is:

- a. 33
- b. 34
- c. 35
- d. 36

17. Cause of endemism:

- a. Narrow ecological amplitude
- b. Good adaptability
- c. Small range of mountain
- d. None

18. Darwin's finches is a suitable example of:

- a. Paleoendemism
- b. Neoendemism
- c. Cosmopolitan distribution
- d. None

19. Kiwi of New Zealand is a suitable example of:

- a. Paleoendemism
- b. Neoendemism
- c. Cosmopolitan distribution
- d. None

20. Endemism is:

- a. The association of a biological taxon with a unique and well-defined geographic area.
- b. The non-association of a biological taxon in well-defined geographic area.
- c. Related to cosmopolitan distribution.
- d. None.

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University of Science and Technology, Meghalaya

Date Stamp: \_\_\_\_\_

SESSION 2016-17		COURSE _____ PAPER CODE: _____		Session: 2016-17 Course _____ Roll No. _____ Enrollment No. _____ Semester _____ Name of the Paper _____ _____ Paper Code _____
NAME OF THE PAPER: _____		SEMESTER _____		
<b>Instructions to Candidates</b>				
1. This answer booklet has 4 pages. Please check before writing whether it is complete or in good condition. 2. Do not write your name anywhere in the answer booklet. 3. Write legibly on both sides of the paper 4. You may use some space for any rough notes or calculation on the answer booklet if you need. These rough notes, calculations must be scored out before submitting the answer booklet. 5. Do not bring any book or loose paper in the examination hall. 6. Do not tear any page from the answer booklet. 7. Do not write anything on the question paper or blotting paper or any pieces of paper while you are in the examination hall. 8. Any act of indiscipline or misbehavior in the examination hall will result in your expulsion. 9. No examinee is allowed to leave the examination hall until 30 minutes lapse after the commencement of the examination. 10. Additional answer sheet will be supplied after the main answer booklet is completed.		<b>For Objective Type Questions</b>		
		Page No.	Marks	
		Total		
		<b>For Descriptive Type Questions</b>		
		Question No.	Marks	
		Total		
		Grand Total		

Scrutinizer's Signature

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