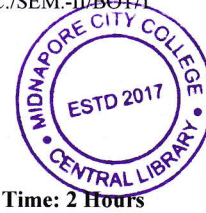


PG CBCS
M.Sc. Semester-II Examination, 2022
BOTANY
PAPER: C-BOT 204



Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

C-BOT 204.1: PLANT AND SOCIETY-II

Marks: 20

GROUP-A

- 1. Answer any one question of the following:** **8×1=8**
- a) With examples write down the characteristic features of Bryophytes and Pteridophytes. 4+4
- b) Draw and describe the different stages of Lytic cycle found in bacteriophage. 3+5

GROUP-B

- 2. Answer any two questions of the following:** **4×2=8**
- a) Mention the basis of R.H Whittaker's five kingdom classification..
- b) Briefly describe the Three Domain Concept of Woese *et al.*(1990) of biological classification.
- c) Distinguish between meristematic and permanent tissues found in higher plants.
- d) Write down the economic importance of Gymnosperms.

GROUP-C

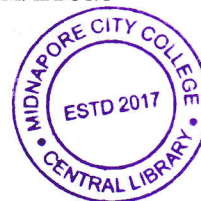
- 3. Answer any two questions of the following:** **2×2=4**
- a) Distinguish between Gram-positive and Gram-negative bacterial cell wall
- b) Mention the photosynthetic pigments and reserve food material of Rhodophyceae.
- c) Write down the functions of plastid
- d) Why pteridophytes are known as 'vascular cryptogams'?

(P.T.O.)

(2)

C-BOT 204.2: SOCIO-ECONOMIC ASPECTS OF PLANTS

Marks: 20

GROUP-A**1. Answer any one question of the following:**

8×1=8

- a) What are ethnobotanical plants? Write the scientific names with their respective families and medicinal uses of 'Thankuni', 'Tulsi' and 'Kalmegh' 2+6
- b) Write the botanical names of two spices yielding and two beverage yielding plants with their respective families. Write down the uses of beverage in human system.

GROUP-B**2. Answer any two questions of the following:**

4×2=8

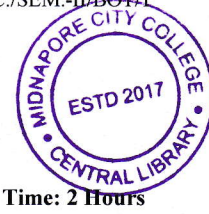
- a) Write a short note on Diatomites.
- b) What is amber? Write its uses.
- c) What are cereals? Mention any two cereal yielding plants with their respective scientific names and families
- d) Name two pulse yielding plants with family. Mention the utility of pulses in human beings.

GROUP-C**3. Answer any two questions of the following:**

2×2=4

- a) Distinguish between edible oil and essential oil.
- b) Write the scientific name and family of 'Babui grass' and 'Mat grass'.
- c) Mention any two dye yielding plants with their respective scientific and family names.
- d) Write the scientific names and families of 'Sugar cane' and 'Jute'.

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Full Marks: 40

Time: 2 Hours

Write the answer for each unit in separate sheet

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C-BOT 204.1: PLANT AND SOCIETY-II

Marks: 20

GROUP-A

1. Answer any **one** question of the following: 8×1=8
- a) With examples write down the characteristic features of Bryophytes and Pteridophytes. 4+4
- b) Draw and describe the different stages of Lytic cycle found in bacteriophage. 3+5

GROUP-B

2. Answer any **two** questions of the following: 4×2=8
- a) Mention the basis of R.H Whittaker's five kingdom classification..
- b) Briefly describe the Three Domain Concept of Woese *et al.*(1990) of biological classification.
- c) Distinguish between meristematic and permanent tissues found in higher plants.
- d) Write down the economic importance of Gymnosperms.

GROUP-C

3. Answer any **two** questions of the following: 2×2=4
- a) Distinguish between Gram-positive and Gram-negative bacterial cell wall
- b) Mention the photosynthetic pigments and reserve food material of Rhodophyceae.
- c) Write down the functions of plastid
- d) Why pteridophytes are known as 'vascular cryptogams'?

(P.T.O.)