

2022

M.Sc.

2nd Semester Examination

BOTANY

PAPER—204 (CBCS)

Full Marks : 50

Time : 2 Hours

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.

Illustrate the answers wherever necessary.

Unit 204.1 General concept on Plant Kingdom

1. Answer any two questions. 2×2

(a) Give two characters of Cyanophytes.

(b) Name one early vascular plant. Mention its age of occurrences.

(Turn Over)

(c) Give example each of a virus having icosahedral symmetry and helical symmetry.

(d) Define organelles. Name one unit membraned and one double membraned organelle in living system.

2. Answer any *two* questions. 2×4

(a) Differentiate bacteria on the basis of flageller arrangement. Discuss basal body of bacterial flagella.

(b) Why bryophytes are called as amphibians in plant kingdom?

(c) Discuss three domain concept of Carl Woese. Citing example of each domain.

(d) Write a note on economic importance of gymnosperms.

3. Answer any *one* question. 1×8

(a) Discuss complex tissue system found in plants. Mention the role of sclerenchyma tissue in plants. 5+3

- (b) Mention important characters of viruses. Give two examples of each from animal and plant viruses.

Unit 204.2 Socio-economic aspects of Plants

4. Answer any *two* questions. 2×2

(a) What is Coir?

(b) What is amber? Write its importance.

(c) Name two essential oil yielding plants and mention the use of such oil.

(d) Write the scientific name of mat grass. Mention its family.

5. Answer any *two* questions. 2×4

(a) Name two spices yielding plants and write their uses.

(b) What is cash crop? Name two cash crop from Jangal mahal.

- (c) Name 4 highly medicinal plants from your locality.
- (d) Write two Natural dye yielding plants with their families Name the plant parts used to obtain the dye.
6. Answer any *one* question. 1×8
- (a) What are cereals? Give the botanical name with families of two cereal yielding plants. Discuss their uses.
- (b) Give the botanical name of two beverage yielding plants. Mention their families. Write down the active principles and uses of those beverages. 2+1+2+3

[*Internal Assessment - 10 Marks*]
