

M.Sc. 2nd Semester Examination, 2023

BOTANY

PAPER – BOT-204.1 & 204.2 (CBCS)

Full Marks : 40

Time : 2 hours

The figures in the right hand margin indicate marks

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

PAPER – BOT-204.1

(General Concept on Plant Kingdom)

1. Answer any two questions : 2 × 2
- (a) Give one example of each of a single stranded DNA and a double stranded RNA virus.
- (b) Write botanical names of two medicinally important gymnosperms.

(c) Mention two bacterial characters of Cyanoprokaryotes.

(d) Name the first vascular land plant. From which geological time the plant was first discovered?

2. Answer any *two* questions : 4 × 2

(a) Write a note on economic importance of Gymnosperms. 4

(b) Discuss Carl Woese's three domain concept. 4

(c) Write down the salient features of Hepaticopsida with examples. 4

(d) What are phycocolloids? Name three groups of them and mention three uses of these chemicals. 1 + 3

3. Answer any *one* question : 8 × 1

(a) Discuss different types of bacteria on the basis of their shape. Give example of each type. 5 + 3

- (b) Enumerate the salient features of green algae and brown algae. 4 + 4

PAPER – BOT-204.2

4. Answer any *two* questions from the following : 2×2

- (a) Write the scientific names of two edible oil yielding plants. Mention their families.
- (b) What is the scientific name and plant family of tulsi (holy basil) ?
- (c) What is the biological source of coriander ?
- (d) State the geographical source of foeniculum.

5. Answer any *two* questions from the following : 4×2

- (a) What are cereals ? Why are cereals important as prime component of diet in most of the Indians ?
- (b) Write a note on morphological and chemical characteristics of nigella.

(c) Discuss the geological sources and uses of carum.

(d) Write down the health benefits of tea.

6. Answer any *one* question from the following :

8 × 1

(a) State the active principles and uses of four ethnomedicinal plants.

(b) Write a detailed note on black pepper.
