Total page: 2

PG (NEW) CBCS
M.Sc. Semester-II Examination, 2020
BOTANY
PAPER: C-BOT 204
(**PLANTS AND SOCIETY**)

Full Marks: 40   **Time: 2 Hours**

Answer any *ONE* question from each unit

UNIT-I (General Concept on Plant Kingdom)

20 MARKS

1. Briefly describe the Five Kingdom Concept of R. H. Whittaker (1969) of biological classification.

2. Distinguish between Gram positive and Gram negative bacteria with examples. Mention two each of beneficial and diseases causing bacteria.

3. Describe different types of thallus structures found in algae. Mention its economic importance.

4. Write down the economic importance of Pteridophyte and Gymnosperms.

5. Describe the different stages of Lysogenic cycle found in bacteriophage.

6. Write down different types of lichens found in nature. Mention some important uses of lichens with example.

7. Briefly describe the different components of a typical plant cell and mention their functions.

8. Write down different groups of Bryophytes with examples and mention at least two characteristics of each group.

UNIT-II (Socio-economic aspects of Plants)

20 MARKS

1. Write down the botanical names of four edible and essential oil yielding plant with their respective families. Mention uses of essential oils.

(P.T.O.)

2. Write a short note on dye-yielding plants. Write the medicinal importance of *Aloe vera.*

3. How coal and petroleum formed in nature? Write a short note on amber.

4. Give brief account of morphological characters of *Andrographis paniculata.* Mention its three active principles and enlist four medicinal use of this plant.

5. Write the botanical names of four Cereals yielding plants with their respective family. Mention health benefits of rice bran oil.

6. Write the botanical names of four pulse and four fibre yielding plants with their respective families.

7. What are ethnobotanical plants? Write the scientific name and families of 'Vasak', 'Tulsi', 'Thankuni' and 'Kuchila'.

8. Mention the special uses of *cork, mat grass,* and *sugar cane.*

****