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PG CBCS
M.SC. Semester-III Examination, 2021
BOTANY
 PAPER: C-BOT 304
PLANTS AND SOCIETY-II (CBCS)

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

Write the answer for each unit in separate sheet

BOT 301.1

PLANT AND ENVIRONMENT

Answer any TWO questions from the following: **2X10 = 20**

1. What is biodiversity? Differentiate between α and β diversity. Write about the advantages and disadvantages of *Ex-situ* conservation. 2+3+5
2. What is 3R? Differentiate between intrinsic and engineered Bioremediation. Write short notes on the advantages and limitation of Bioremediation. What are the major themes of Paris Climate Agreement 2015. 2+2+4+2
3. What do you mean by ecosystem? What are the characteristics features of freshwater ecosystem? Describe the freshwater ecosystem of lakes. 2+3+5
4. What do you mean by halophytes? Describe anatomical and physiological adaptive features of hydrophytes. 2+4+4
5. Write short notes on the following 2.5×4
 - a. Umbrella species
 - b. Biomonitoring;
 - c. Red data book;
 - d. Chipko movement

BOT 301.2

BIOTECHNOLOGY AND HUMAN WELFARE

Answer any TWO questions from the following: **2X10 = 20**

1. What is GM crop and golden rice? Give a brief account on the contraction of this transgenic crop. 4+6
2. Write down different steps for cheese and mention the microorganism used in this production. What is red wine? 6+2+2
3. Define petro crops? Give two examples of two petrocrops. Write short notes on biodiesel. 2+2+6

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4. What is sweet dessert wine? Mention different types of sausages and their casing materials. Name two vegetable fermented food. 2+6+2
5. Write down the production process of sausage. Why fermented foods are more beneficial than other foods. Name two microorganisms found in curd. 4+4+2
