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**PG CBCS**  
**M.SC. Semester-II Examination, 2021**  
**BOTANY**  
**PAPER: BOT 202**  
**PALEOBOTANY, PALYNOLOGY & PLANT REPRODUCTIVE BIOLOGY**

**Full Marks: 40****Time: 2 Hours****Write the answer for each unit in separate sheet****UNIT- BOT 202.1****Answer any TWO questions of the following:**

10X2=20

1. What is 'Pangaea'? Write down the evidences in favour of continental drift theory.  
Discuss about different driving forces responsible for plate tectonics. 2+4+4
2. What is meant by Indian Gondwana? Write down the basis of 3-fold classification of Indian Gondwana? Briefly describe the megafloristics of lower Gondwana in Damodar Valley Basin. 2+2+6
3. Define fossil. Briefly discuss the important factors responsible for fossilization process. Write notes on cast and amber. 2+4+4
4. What is meant by geologic clock? Write a note on radio carbon dating in calculating the age of rocks. Briefly describe the application of palaeobotany in deciphering past vegetation environment. 2+5+3

**UNIT- BOT 202.2****Answer any TWO questions from the following:**

10X2=20

1. What is palynology? Differentiate between spores and pollen grains. Describe different types of apertures found in pollen grains. 1+2+7
2. What is allergic rhinitis? Why pollen grains cause allergies? State the mechanism of action of allergic reactions caused due to the pollen grains. 2+3+5
3. Write notes on melissopalynology and forensic palynology. 5+5
4. What is meant by self-incompatibility? Write down the difference between autogamy and allogamy. Discuss on the contrivances for cross pollination. What are myophilous flowers? 2+2+4+2

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