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PG CBCS
M.Sc. Semester-II Examination, 2022
BOTANY
PAPER: BOT 202

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

<u>Write the answer for each unit in separate sheet</u>
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.
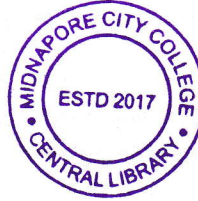
<u>BOT 202.1: PALAEO BOTANY</u>
Marks: 20

GROUP-A

1. Answer any <u>one</u> question of the following: 8×1=8

   a) Write down the megafloral succession through Geological time table right from
      Precambrian to Cenozoic era.   8

   b) Who proposed the three fold classification of Indian Gondwana sequence? Briefly
      describe the megafloristics of Middle Gondwana in son valley basin.   2+6

GROUP-B

2. Write notes on any <u>two</u> of the following: 4×2=8

   a) Radiocarbon dating;

   b) Continental Drift;

   c) Fossilization process; and

   d) Mould-cast fossil types.

GROUP-C

3. Answer any <u>two</u> questions of the following: 2×2=4

   a) What is amber?

   b) What is coal ball?

   c) Define geological clocks

   d) Define index fossil with example.

(P.T.O)

BOT 202.2: PALYNOLOGY AND PLANT REPRODUCTIVE BIOLOGY
Marks: 20

GROUP-A

1. Answer any <u>one</u> question of the following: 8×1=8

   a) What is pollinosis? Schematically represent the allergenic reactions caused by pollen grains in human health system. Give two examples of allergenic plants commonly found in your locality.   2+4+2

   b) Write down the chemical components of sporopollenin. Classify the pollen grains proposed by G.Erdtman.   2+6
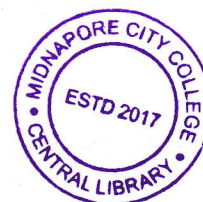
GROUP-B

2. Answer any <u>two</u> questions of the following: 4×2=8

   a) Write down the significance of palaeopalynology.

   b) Write a brief note on the contrivances for cross pollination.

   c) Write briefly about the chemical characteristics of honey.

   d) Write a short note on pollen-pistil interaction.

GROUP-C

3. Answer any <u>two</u> questions of the following: 2×2=4

   a) What is meant by pollination syndrome?

   b) What is bee-bread?

   c) What is pollen kit?

   d) Write down in vitro test for detection of pollen allergen.

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