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Total No. of Pages : 01

Total No. of Questions : 08

M.Sc. (Ph. Chem) (Sem.-2)
CHEMISTRY OF NATURAL PRODUCTS
Subject Code : MSPC-104
M.Code : 20506
Date of Examination : 12-12-22

Time : 3 Hrs.

Max. Marks : 80

INSTRUCTION TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries SIXTEEN marks.

1.
 - a) Explain different methods for determination of the ring size of sugars.
 - b) Elaborate on structure elucidation of quinine.
2. Discuss the chemical properties, isolation, purification, industrial uses and structural elucidation of menthol.
3. Write an elaborative note on terpenoids, with special emphasis on the structural chemistry and properties of citral.
4.
 - a) Discuss the classification, chemistry and structure elucidation of anthraquinone glycosides.
 - b) Discuss the structural elucidation of cholesterol.
5. Write a note on:
 - a) Flavonoids
 - b) Structure elucidation of starch
6.
 - a) Explain the structure of disaccharides with special emphasis to sucrose and lactose.
 - b) Define and classify coumarins.
7. Write note on the properties and chemistry of:
 - a) Cardiac glycosides
 - b) Steroids
8.
 - a) What do you understand by the term marker compound? Explain different types of markers and their role in standardization of plant drugs.
 - b) Give structure elucidation and uses of morphine.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.