

P. Pages : 1

Time : Three Hours



GUG/W/22/14165

Max. Marks : 75

- Notes :
1. All questions are compulsory.
 2. Illustrate your answers wherever necessary with the help of neat sketches.
 3. Use of slide rule, Logarithmic tables, Steam tables, Mollier's chart, Drawing instruments, Thermodynamic tables for moist air, Psychrometric charts and Refrigeration charts is permitted.

1. Elaborate on : **2x20**
=40
- i) Explain about Drug targets with respect to Receptor and enzymes.
 - ii) Explain various steps involved in Structural elucidation of Triterpenoids.
 - iii) Explain the general methods in structural elucidation of alkaloids.
2. Discuss on : **1x15**
=15
- i)
 - a) What is Invitro Evolution? How it is useful in drug discovery.
 - b) How Phage display can be used as identification of therapeutic novel peptides?
 - ii)
 - a) Write short notes on Echinocandins.
 - b) Explain the structural constitution of Rutin.
3. Write notes on: **4x5**
=20
- i) Explain how you will elucidate the N-Methyl group present in morphine?
 - ii) Explain nature and position of side chain with evidence in cholesterol.
 - iii) Write short notes on polypeptide Antibiotics.
 - iv) Explain in detail about the Resistance to β -lactam Antibiotics.
 - v) Explain the chemistry of Digitoxin.
 - vi) Write short notes Stereochemistry of Borneol.
