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राई - 019

W-19

BP 501 T
Medicinal Chemistry-II
(735501)

P. Pages : 2

Time : Three Hours

Max. Marks : 75

Instructions to Candidates :

1. Do not write anything on question paper except Seat No.
2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. All questions are compulsory.
5. Figures to the right indicate full marks.

1. Answer the following questions.

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- a) Draw structure and give IUPAC nomenclature of any two propylamine antihistamines.
- b) Give bioactivation of any one alkylating agent.
- c) Draw structure of cimetidine and ranitidine.
- d) Draw structure and give IUPAC nomenclature of Nifedipine
- e) What are β – blockers? Give nomenclature of brimolol.
- f) Draw structure of Lidocaine and give its nomenclature.
- g) How does phenytoin cure cardiac arrhythmia?
- h) Give nomenclature of hydrocortisone.
- i) Outline the chemical synthesis of procaine.
- j) Give the functions of L – thyroxine and L – thyronine.

2. Answers to **any two** questions of the following.

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- a) Give classification of anticancer drugs. Explain the mechanism of action of anticancer antibiotics.
- b) Classify antihypertensive agents. Explain in detail SAR of Timolol.
- c) Explain the chemistry and SAR of cortisone.

3. Solve **any seven** of the following.

- a) Explain the SAR of H₂ antagonist.
- b) Comment on naturally obtained anticancer agents.
- c) Explain the SAR of calcium channel blockers.
- d) Explain in brief about carbonic anhydrase inhibitors as diuretics
- e) Write a note on Anti – hyperlipidemic agents.
- f) Explain the structure of digoxin and its role in congestive heart failure.
- g) Write a note on Insulin.
- h) Explain the chemistry and nomenclature of Dexamethasone.
- i) Explain in brief about osmotic diuretics.
