



**JBJ-1**

Seat No. \_\_\_\_\_

**M. P. M. (Sem. V) (CBCS) Examination**

**December - 2019**

**Medicinal Chemistry - II : BP - 501T**

Time :  $2\frac{1}{2}$  Hours]

[Total Marks : 75

- 1** Answer the following questions : **10×2=20**
- (a) Explain Histamine synthesis.
  - (b) Give two examples along with structures of agents which act as strong electrophile and thereby prevent DNA synthesis.
  - (c) Give synthesis of nitroglycerin.
  - (d) Give two examples of diuretics which act by inhibiting  $\text{Na}^+\text{-K}^+\text{-2Cl}^-$  symporter.
  - (e) Give synthesis of acetazolamide.
  - (f) Give SAR of local anesthetics.
  - (g) Write a note on coagulants.
  - (h) Explain stereochemistry and nomenclature of steroids.
  - (i) Explain synthesis of benzocaine.
  - (j) Explain SAR of testosterone.
- 2** Answer any **two** out of the following : **2×10=20**
- (a) Define: Anti-hypertensive agent. Classify them with suitable examples. Explain its mechanism of action.
  - (b) Give informative note on anti-neoplastic agents.
  - (c) Define: Anti-histaminics. Classify them with suitable examples. Write a note on H<sub>2</sub>-receptor antagonists.
- 3** Answer any **seven** out of the following : **7×5=35**
- (a) Give synthesis of promethazine and diphenhydramine.
  - (b) Give informative note on anti-anginal agents.
  - (c) Explain SAR of thiazide and loop diuretics.
  - (d) Define: Anti-arrhythmic agents. Classify them with suitable examples.
  - (e) Define and classify anti-hyperlipidemic agents.
  - (f) What are cardiotonic agents? Classify them with suitable examples. Explain SAR of cardiac glycosides.
  - (g) Define and classify antidiabetic agents.
  - (h) Give SAR of Glucocorticoids and estrogen.
  - (i) Explain SAR of HMG-CoA reductase inhibitors and calcium channel antagonists.