

B.Pharm. CBCS Pattern Semester-V
BP501T - Medicinal Chemistry-II

P. Pages : 3

Time : Three Hours



GUG/W/23/13185

Max. Marks : 75

Notes : 1. All questions as compulsory.

- 1. Multiple choice questions attempt all. 20**
- i) Diphenhydramine is a -----.
- a) Ethylene diamine derivative b) Amino alkyl ether analogue
c) Cyclic basic chain analogue d) Mono amino propyl analogue
- ii) Which one is not alkylating agent?
- a) Cyclophosphamide b) Chlorambucil
c) Mechlorethamine d) Mercaptopurine
- iii) Which class of oral hypoglycemics acts on postprandial hyperglycemia?
- a) Meglitinides b) Sulfonylureas
c) Guanidine derivatives d) Thiazolidinediones
- iv) Which among the following is an example of Potassium sparing diuretics?
- a) Metolazone b) Hydrochlorothiazide
c) Spironolactone d) Mannitol
- v) Thiazolidinedione acts on which receptor among the following?
- a) Sulfonylureas b) Peroxisome proliferator activator
c) α -glucosidase inhibitors d) Glucose transporter 2
- vi) Ototoxicity is the side effect of which drug among the following?
- a) Furosemide b) Bumetanide
c) Tolbutamide d) Glimepiride
- vii) The Antianginal drug that inhibits phosphodiesterase enzyme.
- a) Aspirin b) Nifedipine
c) Isosorbide dinitrate d) Dipyridamole
- viii) A chain of Insulin is composed of.
- a) 21- amino acids b) 31- amino acids
c) 20 amino acids d) 30 amino acids
- ix) Histamine is -----.
- a) 1,2,4, imidazolyl ethylamine b) 2,4- imidazolyl ethylamine
c) 2,2,4- imidazolyl ethylamine d) 3,4 -imidazolyl ethylamine
- x) Chlorpropamide is an example of.
- a) Biguanides b) Thiazolidinediones
c) Meglitinides d) Sulfonylureas

- iii) What are Antihyperlipidemic agents. Classify the antihyperlipidemic agents and describe the mode of action of HMG-CoA reductase inhibitors.

3. Short answer question **any seven.**

**5x7
=35**

- i) Write short note on proton pump inhibitors.
- ii) Explain the mode of action of Furosemide and give its synthesis.
- iii) Explain the role of Insulin and give the synthesis of Tolbutamide.
- iv) Explain the local anaesthetic agents with their classification and give the SAR of local anesthesia agents.
- v) What are the thyroid hormones? Explain the hyperthyroidism with symptoms, causes and their treatment.
- vi) What is CHF. Explain what are the positive inotropic agents? Give their mechanism.
- vii) Give a note on H2 antagonist ranitidine.
- viii) Define Antihyperlipidemic agent. Classify it in details.
- ix) Give account on Digitoxin.
