

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

P. Pages : 3

Time : Three Hours



GUG/W/24/13185(S)

Max. Marks : 75

Notes :

1. All questions are compulsory.
2. Discuss the reaction, mechanism wherever necessary.

1. Multiple choice questions.

1x20

=20

- 1) In which conditions Histamine is released?
 - a) Injury
 - b) Allergic reaction
 - c) Both a & b
 - d) None
- 2) H₂ receptor mainly present in -----
 - a) Skin
 - b) GIT
 - c) CNS
 - d) All of above
- 3) First generation antihistaminic drug crosses the blood brain barrier is -----
 - a) Cetrizine
 - b) Chlorpheniramine
 - c) Fexofenadine
 - d) Loratadine
- 4) After release Histamine produces -----
 - a) Hypotension
 - b) Oedema
 - c) Bronchi constriction
 - d) All
- 5) IUPAC name of Histamine is -----
 - a) (2-imidazol-4-yl) ethylamine
 - b) 2 (4-imidazolyl) ethylamine
 - c) Both a & b
 - d) None
- 6) Non-sedative antihistaminic includes all except -----
 - a) Cetrizine
 - b) Cyclizine
 - c) Loratadine
 - d) Pyrillamine
- 7) Methotrexate inhibits -----
 - a) Glutathione reductase
 - b) Alanine transferase
 - c) Dihydrofolate reductase
 - d) Adenine deaminase
- 8) Which drugs inhibits RNA & DNA synthesis?
 - a) Carmustine
 - b) Paclitaxel
 - c) Doxorubicin
 - d) Interferon- α
- 9) Prostaglandin are local regulators whose basic structure is derived from -----
 - a) Oligosaccharides
 - b) Fatty acids
 - c) Steroids
 - d) Amino acids

- 10) Inhibitors of Na/K ATPase used in management of CHF -----
 - a) Enalapril
 - b) Digoxin
 - c) Minodoxil
 - d) Amrinone
- 11) Which of the following is an intravenous endothelin receptor antagonist -
 - a) Tezoentan
 - b) Digoxin
 - c) Nesiritide
 - d) Digitoxin
- 12) Which drug acts by competitive inhibition of vitamin K reductase?
 - a) Heparin
 - b) Warfarin
 - c) Ezetimibe
 - d) Niacin
- 13) Side effects of Disopyramide is -----
 - a) Negative inotropism
 - b) Dry mouth
 - c) Urinary hesitancy
 - d) Paradoxical ventricular tachycardia
- 14) β -adrenergic receptors blockers -----
 - a) Increases AV induction time
 - b) Decreases AV nodal refractoriness
 - c) Both a & b
 - d) None
- 15) Anabolic steroids are ----- versions of testosterone.
 - a) Effective
 - b) Synthetic
 - c) Natural
 - d) Ineffective
- 16) Local anaesthetics are -----
 - a) Weak bases
 - b) Weak acids
 - c) Salt
 - d) None
- 17) Which of the following anaesthetic agent shows antiarrhythmic action?
 - a) Lidocaine
 - b) Bupivacaine
 - c) Procaine
 - d) Etidocaine
- 18) Which one will cause heart failure when combined with verapamil?
 - a) Captopril
 - b) Furosemide
 - c) Atenolol
 - d) Losartan
- 19) Toxicity of Thiazolidinediones is -----
 - a) Weight loss
 - b) Edema
 - c) Hypoglycemia
 - d) Diarrhoea
- 20) Hormone production is a function related to -----
 - a) Hypothalamus
 - b) Pons
 - c) Hippocampus
 - d) Medulla

2. Long answer questions (Solve **any two**).

**2x10
=20**

- 1) Classify hypoglycemic agents. Explain sulfonylurea class.

- 2) Explain in detail mechanism of action & classification and SAR of local anaesthetics.
- 3) Explain in detail sex hormones with examples.

3. Short answer questions (Solve **any seven).**

**7x5
=35**

- 1) Comment on SAR of H₁ antagonist.
- 2) Give the classification of antihyperlipidemic drugs.
- 3) Explain the role of Digoxin & Digitoxin in CHF.
- 4) Give structure, MOA, uses & adverse effects of clopidogrel.
- 5) Add a note on Bile acid sequestrants.
- 6) Write in detail the SAR of ACE inhibitors.
- 7) Write the synthesis of methyldopa & it's IUPAC name.
- 8) Discuss the mode of action of thiazide diuretics.
- 9) Add a note on calcium channel blockers.
