

B. Pharm. Third Year (CBCS Pattern) Semester-V

BP501T - Medicinal Chemistry-II

P. Pages : 3

Time : Three Hours



GUG/S/25/13185

Max. Marks : 75

Notes :

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

1. Multiple Choice Questions:

$$\begin{aligned} 1 \times 20 \\ = 20 \end{aligned}$$

- 1) Quinidine belongs to-----
 - a) Class I
 - b) Class II
 - c) Class III
 - d) Class IV
- 2) The angiotensin II receptor antagonist are / is -----
 - a) Losartan
 - b) Candesartan
 - c) Telmisartan
 - d) All of these
- 3) All of the following diuretics are used in the treatment of glaucoma except-
 - a) Acetazolamide
 - b) Methazolamide
 - c) Furosemide
 - d) Both a & b
- 4) Thiazide diuretics acts on -----
 - a) Loop of Henle
 - b) Proximal tubule
 - c) Distal tubule
 - d) Collecting duct
- 5) Potassium channel activation is the mechanism of action of-
 - a) Nicorandil
 - b) Verapamil
 - c) Bepridil
 - d) Nimodipine
- 6) Which drug is an extract from the “periwinkle plant”?
 - a) Busulfan
 - b) Mercaptopurine
 - c) Lomustine
 - d) Vincristine
- 7) Alkylating agent alkylate at 7th position of-
 - a) Thymidine
 - b) Adenine
 - c) Guanine
 - d) Cytosine
- 8) In which of the following drug contain furan ring
 - a) Ranitidine
 - b) Cimetidine
 - c) Famotidine
 - d) Omeprazole
- 9) A diuretic agent which has a steroid like nucleus is-----
 - a) Trimethoprim
 - b) Chlorothiazide
 - c) Ethacrynic acid
 - d) Spironolactone
- 10) Which of the following type of the angina is caused by coronary spasm?
 - a) Stable angina
 - b) Unstable angina
 - c) Crescendo angina
 - d) Prinz metal angina

- 11) Which one will cause heart failure when combined with verapamil?
 - a) Captopril
 - b) Aliskiren
 - c) Atenolol
 - d) Furosemide
- 12) Increased serum level of which of the following may be associated with atherosclerosis-
 - a) VLDL
 - b) LDL
 - c) Cholesterol
 - d) HDL
- 13) Synthetic statin derivative is -----
 - a) Fluvastatin
 - b) Lovastatin
 - c) Simvastatin
 - d) Pravastatin
- 14) Which might cause a deficiency in prothrombin or in a Stuart.
 - a) Liver disease
 - b) Vitamin K deficiency
 - c) Both a & b
 - d) Renal disease
- 15) Which drug acts by competitive inhibition of Vitamin K reductase?
 - a) Desirudin
 - b) Heparin
 - c) Warfarin
 - d) Niacin
- 16) Which of the following drug is Brain Natriuretic peptide.
 - a) Digoxin
 - b) Nesiritide
 - c) Bosentan
 - d) Tezosentan
- 17) In male the sex hormone that maintains sexual organs and secondary sex characteristics is-
 - a) Progesterone
 - b) Oestrogen
 - c) Testosterone
 - d) Relaxin
- 18) Sildenafil is used for the treatment of-
 - a) Malaria
 - b) Epilepsy
 - c) Diabetes
 - d) Erectile dysfunction
- 19) Thiazolidinediones are commercially known as-
 - a) Glitazone
 - b) Biguanides
 - c) Sulfonylureas
 - d) Benzoic acid derivative
- 20) Which of the following local anaesthetic is called as universal anaesthetic.
 - a) Dibucaine
 - b) Procaine
 - c) Lidocaine
 - d) Bupivacaine

2. Solve **any two**.

**2x10
=20**

- 1) Define and classify antihistaminic agent with suitable examples. Discuss in brief about H₂ receptor antagonist.
- 2) Write a brief note on oral hypoglycemic agents.
- 3) What are antihypertensive agents? Classify them with suitable examples. Explain in detail about ACE inhibitors.

3. Solve any seven.

**7x5
=35**

- 1) Discuss about 5-fluorouracil as an antineoplastic agent.
- 2) Outline the synthesis and clinical uses of procaine & methyldopate HCl.
- 3) Write a short note on organic nitrates.
- 4) Discuss the SAR of Local anaesthetics.
- 5) Write a short note on thiazide diuretics.
- 6) Write structure, IUPAC name, MoA and uses of clofibrate.
- 7) Write a note on proton pump inhibitors.
- 8) Write a short note on antithyroid drugs.
- 9) Write a note on coumarin derivative as anticoagulants.
