

School of Medical and Allied Sciences

Pharmacy

Summer Term - September 2023

Time : 3 Hours

Marks : 75

Sem V - BPHT5001 - MEDICINAL CHEMISTRY II THEORY

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

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| 1. | What is the chemical structure of promethazine HCl? | CO1 | (1) |
| 2. | What is the chemical structure of Chlorothiazide? | CO2 | (1) |
| 3. | Illustrate the chemical structure of disopyramide with its uses. | CO3 | (1) |
| 4. | Illustrate the chemical structure of Hydrocortisone with its uses. | CO4 | (1) |
| 5. | Illustrate the chemical structure of hexylcaine with its uses. | CO5 | (1) |
| 6. | Identify the various classes of the gastric proton pump inhibitors (including H ₂) with chemical structure. | CO1 | (5) |
| 7. | Identify the various classes of the hypotensive agents with chemical structure. | CO2 | (5) |
| 8. | Build the flowchart of cholesterol biosynthesis. | CO3 | (5) |
| 9. | Examine the various steps for the biosynthesis of thyroxine with its chemical structure. | CO4 | (5) |
| 10. | Examine the SAR of anilide derivatives with suitable examples. | CO5 | (5) |
| 11. | Elaborate the definition of biomarkers and also give four names of CVD early stage protein biomarkers. | CO6 | (5) |
| 12. | Write the synthetic reaction of any two of the following list:
1). Promethazine hydrochloride
2). Triprolidine hydrochloride
3). Cimetidine | CO1 | (8) |
| 13. | Classify the diuretics drugs with its chemical structure and also give a synthetic reaction of furosemide. | CO2 | (8) |
| 14. | Classify the anticoagulant drugs and also list the various coagulant factors. | CO3 | (8) |
| 15. | Explain the nomenclature and metabolism of steroids. | CO4 | (8) |
| 16. | Explain the various classes of oral hypoglycemic drugs with its chemical structure. | CO5 | (8) |