SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

COIMBATORE

UNIT 2 QUESTION BANK (PART II)

TOPIC: H$_2$ ANTAGONIST

SUBJECT: MEDICINAL CHEMISTRY II

Sr. No.	Question	Mapping from Various Sources	Bloom's Taxonomy Level
1	Classify H2-receptor antagonists with examples (cimetidine, ranitidine, famotidine).	Common classification question in B.Pharm/M.Pharm university exams (Pharmacology - Autacoids & GI drugs); Standard in GPAT mocks	Remembering
2	Explain the mechanism of action of H2-antagonists on parietal cells involving histamine and cAMP.	Frequently asked in university question banks; Core concept in GPAT pharmacology section	Understanding
3	Describe the pharmacological actions and therapeutic uses of H2-antagonists in peptic ulcer and GERD.	Short notes on uses in Pharmaceutical Pharmacology university exams; GPAT on anti-ulcer drugs	Understanding
4	Compare the potency, duration of action, and dosing of cimetidine, ranitidine, and	Comparison question in M.Pharm exams; Appears in GPAT-level analytical questions	Analyzing

	famotidine.		
5	Discuss the drug interactions of cimetidine and explain the underlying mechanism (CYP inhibition).	Common in GPAT previous years-inspired questions; University papers on adverse effects/interactions	Understanding
6	Enumerate the adverse effects of cimetidine, including anti-androgenic effects and gynecomastia.	Adverse effects short notes in university question banks; GPAT pharmacology MCQs	Remembering
7	Explain why famotidine is preferred over cimetidine in patients on multiple drugs.	Application-oriented in clinical pharmacology; GPAT on safer alternatives	Applying
8	Describe the clinical implications of the ranitidine recall due to NDMA contamination.	Current affair-based question post-2019; Relevant in recent university/GPAT updates	Understanding
9	List the advantages of H2-antagonists over proton pump inhibitors and antacids.	Short notes/comparison in B.Pharm exams; GPAT on anti-ulcer therapy	Remembering
10	Compare H2-antagonists with proton pump inhibitors in terms of efficacy, onset, and duration.	Analytical question in university exams; Common in GPAT on acid suppression drugs	Analyzing
11	Discuss the role of H2-antagonists in Zollinger-Ellison syndrome and stress ulcer prophylaxis.	Clinical uses in hospital pharmacy sections; University/GPAT questions	Understanding
12	Why does nocturnal	Mechanism-based application	Applying

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	dosing of H2-antagonists effectively promote ulcer healing?	question in GPAT and university exams	
13	Explain the structure-activity relationship focusing on why cimetidine has anti-androgenic effects unlike others.	Advanced SAR question in Medicinal Chemistry/Pharmacology university papers	Understanding
14	Evaluate the current status of ranitidine in the market and suitable alternatives.	Evaluation-type question post-2020 recall; Relevant in modern pharmacology exams	Evaluating
15	Describe the pharmacokinetics of famotidine, including route and elimination.	PK/PD questions in pharmacology exams; Common MCQ in GPAT	Understanding