

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

COIMBATORE



UNIT 2 QUESTION BANK (PART II) TOPIC: VASODILATORS SUBJECT: MEDICINAL CHEMISTRY II

Sr. No.	Question	Mapping from Various Sources	Bloom's Taxonomy Level
1	Define vasodilators and classify them with examples (e.g., nitrates, direct-acting, K ⁺ channel openers).	Common in B.Pharm/M.Pharm university exams (Pharmacology); Standard classification question in GPAT mocks	Remembering
2	Explain the mechanism of action of organic nitrates like nitroglycerin involving NO and cGMP pathway.	Frequently asked in university question banks; Appears in GPAT pharmacology sections	Understanding
3	Describe the clinical uses of nitroglycerin in angina and other conditions.	Short notes in Pharmaceutical Pharmacology university exams; GPAT on antianginal drugs	Understanding
4	Discuss the development of tolerance to nitrates and methods to prevent it.	Common in GPAT mocks and university exams on cardiovascular drugs	Understanding
5	Explain the mechanism of action of sodium nitroprusside and its use in hypertensive emergencies.	Appears in GPAT previous years-inspired questions; University questions on parenteral antihypertensives	Understanding

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6	What are the adverse effects and toxicity concerns with sodium nitroprusside (e.g., cyanide/thiocyanate)?	Toxicity questions in pharmacology university papers; GPAT on vasodilators	Remembering
7	Describe the mechanism of hydralazine as a direct arterial vasodilator and its compensatory effects.	Repeated in B.Pharm exams; Common in antihypertensive classification	Applying
8	Enumerate the adverse effects of hydralazine, including lupus-like syndrome.	Short notes/adverse effects in university question banks; GPAT pharmacology	Remembering
9	Explain the mechanism of minoxidil (K ⁺ channel opener) and its unique side effect of hypertrichosis.	Advanced question in GPAT mocks; University papers on resistant hypertension drugs	Understanding
10	Compare the vasodilatory effects: hydralazine vs. minoxidil vs. nitroprusside.	Analytical/comparison question in M.Pharm university exams; GPAT-level	Analyzing
11	Discuss the reflex responses (tachycardia, sodium retention) to direct vasodilators and how to manage them.	Common in clinical pharmacology sections; University exams on antihypertensive therapy	Understanding
12	Why are direct vasodilators often combined with beta-blockers and diuretics?	Application question in GPAT and university exams on combination therapy	Applying
13	Describe the routes of administration and onset of action for nitroglycerin in acute angina.	Practical-oriented in B.Pharm exams; GPAT on dosage forms	Understanding
14	Evaluate the role of vasodilators in hypertensive emergencies (e.g., nitroprusside vs.	Evaluation-type in university question banks; GPAT on emergency management	Evaluating

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	hydralazine).		
15	List the contraindications and precautions for nitrate therapy (e.g., with PDE5 inhibitors).	Safety-related questions in pharmacology exams; Common MCQ in GPAT	Remembering