

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

COIMBATORE



UNIT 2 QUESTION BANK (PART II)

TOPIC: MUCOADHESIVE DRUG DELIVERY

SUBJECT: NOVEL DRUG DELIVERY SYSTEM

No.	Question	Mapping from Various Sources	Bloom's Taxonomy Level
1	Define mucoadhesion and differentiate it from bioadhesion.	Common in university exams (e.g., M.Pharm Pharmaceutics question banks); Standard definition question in pharmacy curricula	Remembering
2	Explain the stages of mucoadhesion process (contact stage and consolidation stage).	Frequently asked in university exams on buccal drug delivery systems	Understanding
3	Describe the various theories of mucoadhesion (wetting, diffusion, electronic, adsorption, fracture, mechanical).	Short note in M.Pharm question banks (e.g., previous university papers); Often in competitive exams like GPAT for novel drug delivery	Understanding
4	List and explain the advantages of buccal drug delivery systems.	Short notes section in university exams (e.g., Merits and demerits of buccal drug delivery systems)	Understanding
5	Discuss the disadvantages/limitations of buccal/mucoadhesive drug delivery systems.	Commonly paired with advantages in university question banks; Potential in GPAT/MRB for NDDS	Analyzing
6	Explain the structure of buccal	Part of essay	Understanding

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

COIMBATORE

	mucosa and its relevance to drug delivery.	questions: "Explain in detail about the buccal mucosa, principle of mucoadhesion..." from M.Pharm university exams	
7	Describe the factors affecting transmucosal permeability in buccal delivery.	Formulation considerations in university exams; Related to permeability enhancers in GPAT-level questions	Understanding
8	Enumerate the formulation considerations for buccal drug delivery systems (e.g., polymers, enhancers, backing layer).	Essay/short notes in M.Pharm Pharmaceutics (e.g., formulation approaches and evaluation of buccal DDS)	Applying
9	Discuss the evaluation parameters for mucoadhesive buccal delivery systems (e.g., mucoadhesion strength, residence time, in vitro permeation).	Evaluation of buccal drug delivery system in university question banks	Analyzing
10	Explain the principles of bioadhesion/mucoadhesion with suitable examples of polymers used in buccal systems.	Principle of Mucoadhesion in Buccal drug delivery system (short note, repeated in previous university papers)	Understanding
11	Compare buccal and sublingual routes for mucosal drug delivery.	Conceptual question in NDDS; Appears in university exams on oral mucosal delivery	Analyzing
12	Describe the role of penetration enhancers in improving transmucosal permeability for buccal delivery.	Formulation considerations; Common in GPAT/NIPER for overcoming barriers in	Applying

SNS COLLEGE OF PHARMACY AND HEALTH SCIENCES

COIMBATORE

		NDDS	
13	List common mucoadhesive polymers used in buccal formulations and classify them (natural/synthetic).	Short notes on buccal strips/tablets; Standard in pharmacy university exams	Remembering
14	Discuss unidirectional vs. bidirectional release in buccal patches and its significance.	Advanced formulation question; Derived from buccal patch design in research/university contexts	Analyzing
15	Evaluate the suitability of peptides/proteins for buccal delivery and challenges involved.	Application question; Relevant for NDDS in competitive exams like GPAT (biopharmaceutics aspects)	Evaluating