GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm SEMESTER - III • EXAMINATION - WINTER 2013 Subject Code: 930102           Date: 11-12-2013           Subject Name: Novel Drug Delivery System Part-II           Time: 10.30 am - 01.30 pm           Total Marks: 80           Instructions:           1         Attempt any five questions.           2           3         Figures to the right indicate full marks.           Q.1         (a) What is polymer? How are they characterized from other class of excipient? Classify them on the basis of their pharmaceutical analysis.           (b) Two major classes of polymers are used in NDDS. Compare and comment giving suitable examples based on their IIG status and impurity profile.           (c) Write a note on biodegradation of polymers.           Q.2         (a) What is the difference between conventional dosage form and NDDS? How an administration device become part of it?           (b) Define "Prodrug" Write a note on application of it in therapeutics giving suitable example.           (c) Write a note on any one approach to develop prodrug.           Q.3         (a) What are the basic technologies of developing NDDS? Classify them on the basis of their involvement into different nuit operations.           (b) Define "Somes" e.g. niosome. Compare hepatic bye-pass vs phagocytic uptake from different route of administration in terms of bioavailability.           (c) Write a note on an SCF techn	Seat N	Seat No.: Enrolment No			
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