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GUJARAT TECHNOLOGICAL UNIVERSITY M. Pharm. - SEMESTER - III • EXAMINATION - WINTER • 2015 Subject Code: 930102 Date: 08-12-2015 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. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 Define polymer. Discuss its various applications giving suitable examples. 06 (a) **(b)** Enlist and discuss various properties of polymers 05 Discuss importance of molecular weight and glass transition temperature of 05 (c) polymers and enlist various methods for its determination. Define and classify liposome. Discuss its various characteristics. **Q.2 (a)** 06 Define Disketts. Discuss in details its evaluations. 05 **(b)** Enlist various characteristics, advantages and disadvantages of biodegradable (c) 05 polymers. **(a)** Enlist and discuss various theories of bioadhesion. 06 **Q.3** Discuss polymers used in In situ gels. **(b)** 05 (c) Enlist and discuss various applications of Nanotechnology in Pharmaceuticals. 05 Define Intelligent drug delivery and discuss its various applications giving Q.4 **(a)** 06 suitable examples. Define Neosomes. Differentiate between liposomes and neosomes. Enlist **(b)** 05 various applications of neosomes in pharmaceuticals. Write a note on IIG status and Impurity profile. 05 **(c)** Q.5 Write a note on tailor made medicine. **(a)** 06 Define films. Enlist and discuss various evaluations parameters for films. 05 **(b)** Enlist and discuss various applications of hydrogel in drug delivery system. (c) 05 Discuss significance of spherical crystallization. Enlist advantages and Q. 6 **(a)** 06 disadvantages of spherical crystallization. **(b)** Define prodrug. Discuss significance of prodrug in Novel drug delivery system. 05 Differentiate between sonophoresis and iontophoresis. Enlist drugs suitable for 05 (c) such delivery system. **Q.7** Define SCF. Discuss its various applications in Pharmaceutical Sciences. 06 **(a)** Explain the concept of PEGylations. Discuss in details about manufacturing **(b)** 05 challenges. (c) Enlist the importance of protein and peptides in Pharmaceuticals. Discuss in 05 vitro and in vivo problems associated with such delivery system.
