## BACHELOR OF PHARMACY (B. PHARM.) (CBCS - 2015 COURSE) Final Year B. Pharm. Sem-VIII : WINTER- 2022 SUBJECT: PHARMACEUTICAL TECHNOLOGY-IV (T UE)

Day: Tuesday Time: 02:00 PM-05:00 PM Date: 24-01-2023 W-13729-2022 Max. Marks: 60 N.B. Q.1 and Q.5 are COMPULSORY. Out of remaining attempt ANY TWO 1) questions from each section. Answer to the both sections should be written in **SEPARATE** answer book. 2) Figures to the right indicate FULL marks. 3) **SECTION-I** 0.1 Attempt **ANY FIVE** of the following: (10)What are matrix DDS? a) Explain transderm nitro systems. b) Draw a neat diagram of progstasert IUD. c) State the significance gastric transit time in oral DDS d) Give an example of Penn Kinetic Systems. e) Draw a neat diagram Alzet osmotic pump. f) Give a detailed account on influence of diffusivity of drug on its release from Q.2 a) DDS Discuss the mechanistic approach for the release profile of the drug from b) (03)membrane permeation controlled DDS. Q.3 Discuss the development of floating DDS. a) (05)Discuss in brief; system parameters influencing release of drug from DDS. b) (05)Write short note on **ANY TWO** of the following: Q.4 (10)pH active DDS. a) b) Iontophoretic DDS. Bueche void model. c) **SECTION-II** Q.5 Attempt ANY FIVE of the following: (10)What are MDI's? a) Draw a neat diagram of Liposome. b) What is retrospective validation? c) Draw a neat diagram of aerosol container. d) Explain principle of inertial sampling. e) Give one example of mix up and contamination. f) Discuss in detail validation of building facility. Q.6 a) (07)Discuss ICH guidelines for stability testing. (03)b) **Q.**7 a) Discuss various QC test of aerosols. (07)Give a detailed account of various propellants used in aerosols. b) (03)Write short note on **ANY TWO** of the following: **Q.8** (10)Process validation. a) Documentation. **b**) Nano particulate DDS. c)

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