

Roll No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF PHARMACY AND RESEARCH**  
**B.PHARM SEVENTH SEMESTER**  
**SECOND INTERNAL THEORY EXAMINATION: 2022-23**

**Subject Name: Novel Drug Delivery System**

**Date: 10/09/2022**

**Subject Code: BP704T**

**Time: 7:45 – 9:00 am**

**Total Marks: 30**

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Multiple Choice Questions:**

- |      |   |    |
|------|---|----|
| (1)  | In which polymerization technique - No reactive agents are added to the coating material?   | 01 |
|      | a) in- situ polymerization                      b) Interfacial polymerization   |    |
|      | c) Matrix polymerization                      d) All of above   |    |
| (2)  | Possible morphology of Microencapsulation is?   | 01 |
|      | a) mono nuclear                      b) polynuclear   |    |
|      | c) Matrix                      d) All of above  |    |
| (3)  | Removal of which kind of implant is necessary after completion of therapy   | 01 |
|      | a) Biodegradable                      b) Non- biodegradable    c) Both    d) None   |    |
| (4)  | Chitosan is _____ type of polymer   | 01 |
|      | a) Anionic    b) cationic    c) nonionic    d) neutral  |    |
| (5)  | Tablets that are placed under the skin are  | 01 |
|      | a) enteric –coated tablets                      b) film- coated tablets   |    |
|      | c) Implants                      d) sublingual tablets  |    |
| (6)  | The technique in which formation of conventional o/w emulsion between a partially water-miscible solvent containing the polymer and drug, and aqueous solution containing a surfactant occurred is known as : | 01 |
|      | a) Emulsion polymerization (EP)    b) Dispersion polymerization (DP)  |    |
|      | c) Solvent Diffusion method    d) Nanoprecipitation   |    |
| (7)  | In which techniques of formation of nanoparticles, Biodegradable polymers are used as a key ingredients :   | 01 |
|      | a) Emulsion Polymerization (EP)    b) Dispersion polymerization (DP)  |    |
|      | c) Solvent Evaporation (SP)    d) Nanoprecipitation   |    |
| (8)  | In dispersion polymerization (DP) is carried out by:  | 01 |
|      | a) Gamma irradiation    b) Heating to temperature above 65C   |    |
|      | c) By adding Initiator Surfactant    d) Both A & B  |    |
| (9)  | Loading of the entrapped agents before/during the manufacture procedure is known as   | 01 |
|      | a) Active loading    b) Passive loading    c) both    d) None   |    |
| (10) | The resulting liposomes from French pressure cell extrusion are _____ than sonicated SUVs   | 01 |
|      | a) smaller    b) larger    c) equal    d) none  |    |

