

FOURTH YEAR B.PHARM. EXAM
Paper I – FORMULATIVE PHARMACY
AND BIOPHARMACEUTICS
Q.P. Code : 564267

Time: Three Hours**Maximum: 100 marks****(180 Min) Answer ALL questions in the same order****I. Elaborate on:****Pages Time Marks**
(Max.)(Max.)(Max.)

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| 1. Discuss in detail about the physicochemical properties that affect the formulation, stability and bioavailability of drugs in dosage forms. | 19 | 33 | 20 |
| 2. Explain about the types, Formulation, defects and manufacturing of tablets in large scale production. | 19 | 33 | 20 |

II. Write notes on:

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|---|---|---|---|
| 1. Evaluation of tablets. | 3 | 8 | 5 |
| 2. Hard gelatin capsules. | 3 | 8 | 5 |
| 3. Microencapsulation by co – acervation phase separation. | 3 | 8 | 5 |
| 4. Techniques used in design of prolonged action dosage form. | 3 | 8 | 5 |
| 5. Method of preparation of Liposomes. | 3 | 8 | 5 |
| 6. Factors affecting the absorption of drug. | 3 | 8 | 5 |
| 7. Pharmacokinetic parameters. | 3 | 8 | 5 |
| 8. Methods used in coating of tablets. | 3 | 8 | 5 |

III. Short Answers:

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| 1. Name the enteric coated polymers. | 1 | 5 | 2 |
| 2. Microencapsulation. | 1 | 5 | 2 |
| 3. Soft gelatin capsule. | 1 | 5 | 2 |
| 4. Define Nanoparticles. | 1 | 5 | 2 |
| 5. Dental cones. | 1 | 5 | 2 |
| 6. Implants. | 1 | 5 | 2 |
| 7. Renal clearance. | 1 | 5 | 2 |
| 8. Bioavailability. | 1 | 5 | 2 |
| 9. Spray congealing. | 1 | 5 | 2 |
| 10. Spinhaler | 1 | 5 | 2 |
