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## (LQ 4267)

## FEBRUARY 2020

B.PHARM. DEGREE EXAMINATION FOURTH YEAR PAPER I – FORMULATIVE PHARMACY AND BIO-PHARMACEUTICS

# Q.P. Code: 564267

## **Time: Three hours**

#### I. Elaborate on:

- 1. Define Bio-pharmaceutics. Discuss various fa ctors influencing ug absorption in biological milieu.
- 2. Explain chemical properties influe nce stability of pharmaceutical formulation. Discuss stability testing protocol followed for biological products.

#### II. Write notes on:

- 1. Quality control of hard gelatin capsules.
- 2. Process followed for bio-equivalency testing.
- 3. Different types of granulation techniques adopted in tablet manufacturing.
- 4. Sugar coating process.
- 5. Nanoparticles.
- 6. Processing problems of tablets and its rectification.
- 7. Biological half-life and Elimination rate constant.
- 8. Multi-orifice centrifugation method used in microencapsulation.

#### III. Short answers on:

(10 x 2 = 20)

- 1. Bio availability.
- 2. Phase separation.
- 3. Bridging and filling.
- 4. Different types of dissolution apparatus.
- 5. Compartment models.
- 6. Diffusion mechanism.
- 7. Liposomes.
- 8. Rat hole formation.
- 9. Process variables of film coating.
- 10. Osmosis.

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Maximum: 100 Marks

 $(2 \times 20 = 40)$ 

 $(8 \times 5 = 40)$ 

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