



Printed Pages : 2

PH – 481

(Following Paper ID and Roll No. to be filled in your Answer Book)

**PAPER ID : 5062**

Roll No.

## B. PHARM.

(SEM. VIII) EXAMINATION, 2006-07

### PHARMACEUTICS X (DOSAGE FORM DESIGN)

*Time : 3 Hours]*

*[Total Marks : 80*

*Note : Attempt **all** the questions. All are of **equal** value.*

- 1** Discuss the importance of any **four** of the following : **4×4**
- (a) Particle sizes
  - (b) Wetting properties
  - (c) Solubility
  - (d) Organoleptic properties
  - (e) Stability of dosage forms.
- 2** How do the following affect the formulation design? Give examples (attempt any **four**) **4×4**
- (a) Oxidation
  - (b) Hydrolysis
  - (c) Polymerization
  - (d) Pro-drug approach for elegant products
  - (e) Pro-drug for improved bio-availability.

- 3** Write detailed account of any **two** of the following : **8×2**
- (a) Importance of pre-formulation
  - (b) Bioavailability testing protocol
  - (c) Necessity of *in vitro* dissolution studies.
- 4** Write notes on any **four** of the following : **4×4**
- (a) In vitro-In vivo correlation
  - (b) Principles of sustained release of drugs
  - (c) Delayed release dosage forms
  - (d) Methods employed for designing prolonged release dosage forms.
  - (e) Sustaining drug action on the basis of solubility.
- 5** Attempt any **four** : **4×4**
- (a) Define quality with reference to medicines.
  - (b) What are the requirements of equipment for STERILE products under schedule M ?
  - (c) State the requirements of quality audit.
  - (d) How does the packaging affect quality of the product?
  - (e) What is the relationship between quality and GMP requirements in general?
-