Roll No.

Total No. of Pages : 02

Total No. of Questions: 06

M. Pharm. (Industrial Pharmacy) (Sem.-2)
ADVANCED PRODUCT DEVELOPMENT &
FORMULATION

Subject Code: MPIP-514 (2012 Batch)
Paper ID: [E1231]

Time: 3 Hrs.

Max. Marks: 80

## INSTRUCTION TO CANDIDATES :

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carry SIXTEEN marks.
- (A) What is compression coating? Mention the applications of this process.
   Give a brief account of the materials and machinery used in this process.

  (8)
  - (B) Enlist the product considerations for filling into hard gelatin capsule shells. Comment on self locking and sealing of hard gelatin capsules.

. (8)

- (A) Mention the ingredients of an emulsion dosage form and highlight the
  use of each ingredient. Enumerate the quality control tests conducted
  on emulsions.
  - (B) Describe the tests conducted on aerosols for ensuring their quality.

(8)

- (A) Enumerate the factors affecting release of drugs from semi solid dosage forms. Briefly discuss the machinery used for large scale production of semisolids.
  - (B) Comment on the facilities required for manufacturing SVPs. Mention the quality control tests conducted on SVPs. (8)

- (A) Discuss the protocol for film coa conducted on film coated tablets.
  - (B) How are suspensions stabilized? Dis
- (A) What is lyophilization and mention of lyophilization process and mentic
  - (B) Enlist different types of aerosol fill gases used for this purpose.
- Describe the pelletization process. Me process and describe the tests conduct.



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