

Roll No.					Total No. of Pages: 0	1
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Total No. of Questions: 06

M.Pharmacy (Pharmaceutical Quality Assurance) (Sem.-1) PRODUCT DEVELOPMENT & TECHNOLOGY TRANSFER

Subject Code: MQA-104T M.Code: 74702

Time: 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES:

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.

1. Write briefly:

- A. New drug application
- B. SUPAC
- C. Partition coefficient
- D. Importance of hygroscopicity in pre-formulation parameters
- E. Slugging in tablet manufacturing process
- F. Enlist various Technology Transfer Models
- G. Types of glass used for pharmaceutical packaging
- 2. Explain pilot plant design in detail. How is it crucial in designing scale up studies for a pharmaceutical product?
- 3. Write in detail about polymorphism, solubility, partition coefficient and pK_a of drug molecule in reference to preformulation profiling.
- 4. Discuss NDA chemical post approval changes in reference to guidance to industry document, USFDA.
- 5. Discuss in detail various quality control tests for containers (Glass and plastic).
- 6. Explain various steps involved in the technology transfer from R & D to the production phase of drug development.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

1 M-74702 (S31)-1904