

B.Pharm. (CBCS Pattern) Semester - VII
BP702TR - Industrial Pharmacy-II

P. Pages : 3

Time : Three Hours



GUG/S/23/14144

Max. Marks : 75

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- Notes :
1. All questions are compulsory.
 2. Diagrams and Chemical equation should be given wherever necessary.
 3. Illustrate your answers wherever necessary with the help of neat sketches.

- 1. Multiple choice questions. 1x20
=20**
- i) Which of the following is not a scale-up process.
 - a) Laboratory to pilot-scale
 - b) Pilot-scale to industrial-scale
 - c) Industrial to pilot-scale
 - d) Laboratory to industrial-scale
 - ii) Which of the following methods are generally used in liquid filling?
 - a) Gravimetric
 - b) Volumetric
 - c) Constant level method
 - d) All of the above
 - iii) Pilot plant can be used for -----
 - a) Evaluating results for laboratory studies
 - b) Product and process correction
 - c) Shelf life and stabilities studies
 - d) All of above
 - iv) MOU stands for.
 - a) Memorandum of ubiquitous
 - b) Memorandum of unpredictable
 - c) Memorandum of understanding
 - d) Memorandum of unprofitable
 - v) Technology transfer is
 - a) Purpose-oriented
 - b) Process-Oriented
 - c) Technology oriented
 - d) Commercial-oriented
 - vi) NDA takes
 - a) 12 years
 - b) 15 years
 - c) 10 years
 - d) 5 years
 - vii) Types of TT involves
 - a) Vertical
 - b) Horizontal
 - c) A & B both
 - d) None
 - viii) For liquid dosage form, which information is provided by SU to RU?
 - a) Range of pH and viscosity
 - b) Specific gravity
 - c) H₂O content
 - d) All of these
 - ix) Small industrial Development bank of India (SIDBI) was established on -----
 - a) April 2, 1990
 - b) April 2, 1991
 - c) April 2, 1992
 - d) April 2, 1993

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2. Long answer question solve **any two**. **10x2**
=20
- i) Write in detail about Technology transfer agencies in India. APCTD, NRDC, TIFAC, BCIL, TBSE / SIDBI.
 - ii) What is NDA? Discuss the requirements of data while filling a NDA. Give examples where a NDA can be filed.
 - iii) Write about the following.
 - a) TQM (Total Quality Management)
 - b) QBD (Quality by Design)
 - c) Six-Sigma concept
 - d) Out of specification.
3. Short answer questions solve **any seven**. **5x7**
=35
- i) Discuss the various change levels in SOPAC Guidelines.
 - ii) Write the importance of platform technology
 - iii) Why do we need technology transfer & advantages.
 - iv) What are the responsibilities & role of the Regulatory affairs Departments?
 - v) Write a note on General consideration of Investigational new drug (IND) Application.
 - vi) Write a note on quality management system.
 - vii) Explain the methods for change control in pharmaceutical industry?
 - viii) Discuss the organisation & Responsibilities of CDSCO.
 - ix) Describe various requirements and approval procedure for new drug in India.
