

AMAZON/SINHAGAD/PALGAD.

SIYANA -II :(CBCS 2012 COURSE): SUMMER- 2016

SUBJECT: Elective- III: D) PHARMACEUTICAL PLANT DESIGN & OPERATIONS

Day: Saturday  
Date: 09-07-2016

Time: 10:00 AM TO 1:00 P.M.  
Max Marks: 60

**N.B:**

- 1) Attempt any **THREE** questions from each section.
- 2) All questions carry **EQUAL** marks.

**SECTION-I**

- Q.1 Elaborate on requirements for pharma facilities with reference Factory Act, and Maharashtra Factory Rules.
- Q.2 Narrate importance of Project Leader and his relevance in project Management.
- Q.3 Draw Route Charts for Manufacturing and packaging of injectables (Ampoules or Vials) for advanced markets.
- Q.4 Write short notes on any **TWO** of the following:
- a) Designing of QA Lab advanced markets.
  - b) Schematic diagram for large scale Ointments Manufacturing and Packaging facility.
  - c) Schematic diagram for IPQC cubical for Tablets for advanced markets.

**SECTION-II**

- Q.5 Draw schematics for ETP with special reference to disposal of hazardous waste.
- Q.6 Draw schematics and discuss the operation of water system of pharma plants for advance markets.
- Q.7 Discuss the operations of QA/QC for advance market.
- Q.8 Write short notes on any **TWO** of the following:
- a) Operation of Engineering workshop
  - b) Operation of HRD
  - c) Operation of Warehouse

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