

Seat Number

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DADU-62

MQA-204T : Pharmaceutical Manufacturing Technology
(162106)

Total Page : 1]

Time: 3 Hours

Max. Marks : 75

Instructions to Candidates:

- 1] Do not write anything on the question paper.
- 2] Graph or diagram should be drawn with the black ink being used for writing paper or black HB pencil.
- 3] Student should note; no supplement will be provided. Answer to the point only.
- 4] Solve **ANY FIVE** questions.

1. What is Plant? Write about the Pharmaceutical Manufacturer & it's types. 15
Discuss the Development of Pharmaceutical Industry in detail.
2. Discuss the process automation in Parenteral Industry. Add a note on CIP & SIP. 15
3. Explain the Extrusion & Spheronization process for Preparation of Pellets. 15
Add a note on IPQC tests for Capsules.
4. Why are the Glass is replaced by Plastic as packaging Material? Give the types of Plastics. Discuss the drug plastic interactions in detail. 15
5. What do you mean by QbD? Why is QbD required? Give Advantages of QbD. Explain the Elements of QbD. 15
6. Solve the followings
A) What is Production? Explain Production Planning & Production Control. 7
B) What is Plant layout? Describe in brief the different factors affecting Plant Layout. 8
7. Solve the followings
A) Discuss the Environmental Control, wall & floor treatment in Parenteral manufacturing plant. 8
B) Explain FFS technology with suitable diagram. 7
8. Solve the followings
A) Discuss in brief different processing problems in manufacturing of Tablets 8
B) What do you mean by PAT? Add a brief note on PAT. 7