



Pharmaceutical Process Chemistry -II

Q.P. CODE: 5160

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

3 X 10 = 30 Marks

1. Discuss the various stages of scale up process in detail.
2. Define crystallization? How it is attempted from aqueous and non-aqueous solutions?
3. Discuss catalytic hydrogenation by citing examples. Write a note on metal hydrides.
4. Discuss the basic description of the occupational health and safety assessment series (OHSAS 1800).

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Write a note on genotoxic impurities in API.
6. Define nucleation. Write a note on factors affecting nucleation.
7. Write in detail about the various nitrating agents involved in nitration.
8. Discuss the significance of validation of large scale process.
9. Discuss the significance of steam distillation.
10. Elaborate the kinetics of halogenations.
11. Discuss the significance of H_2O_2 as nonmetallic oxidizing agents.
12. Write a note on characteristics of cost-effective routes.
13. Discuss fermentation process with respect to production of statins.
14. Write a note on hazards labels of chemicals.

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