

IV B.Tech I Semester Supplementary Examinations, April/May 2005
TECHNOLOGY OF PHARMACEUTICALS & FINE CHEMICALS
(Chemical Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain the principle, reaction involved and the technique of Limit test for sulphate
(b) Explain the different types of impurities in Pharmaceuticals with examples
(c) Give an account on storage conditions as a potential source of impurity in pharmaceuticals
2. Compare the status of methyl orange and sulfacetamide in drug industry?
3. Discuss past, present and future status of paraamino salicylic acid in pharmaceutical industry? Give emphasis on economical aspects.
4. Enlist important applications of calcium gluconate. Why testing of calcium gluconate is required? Discuss various implications of above.
5. With a flow sheet explain the manufacturing process of phthalic anhydride from naphthalene.
6. Explain the sugar coating process for tablets. Comment its merits and demerits.
7. Define 'sterilization'. What is the principle of steam sterilization? Describe the design and operation of a large scale autoclave.
8. Describe the following with particular reference to Sterilization with Hot Air Ovens
 - (a) Loading
 - (b) Operation
 - (c) Performance Tests
 - (d) Forced draught Ovens
 - (e) Infra-red Ovens
