| Seat No.: | Enrolment No. |
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- IV(NEW) EXAMINATION - SUMMER 2015

| Subject Code: 2140506 | | | Date: 30/05/2015 | |
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| Tiı | me: 1 truction 1. | . Attempt all questions. | 70 | |
| Q.1 | (a) | Explain: i. PVC of paints ii. Vat dyes iii. Application of insulin iv. Fermentation v. Sterilization | 10 | |
| 0.3 | (b) | List the various separation routes to produce absolute alcohol. | 04 | |
| Q.2 | (a) | Explain manufacturing of H-acid? Also list out the various application of H-acid | 07 | |
| | (b) | What is dye? Classify dye based on its application? OR | 07 | |
| | (b) | With a detailed flowsheet explain the manufacturing process of sugar from sugarcane. | 07 | |
| Q.3 | (a) | reactions, flow diagram and its applications. | 07 | |
| | (b) | What is pigment? Describe manufacturing of Titanium dioxide (white pigment)? | 07 | |
| Q.3 | (a) | OR Explain in brief: i. Phenobarbital ii. Various ways of bagasse disposal iii. Role of Vitamins in human life | 09 | |
| | (b) | Write a short note on Sulfonation | 05 | |
| Q.4 | (a) (b) | What is fermentation? Discuss manufacture of industrial alcohol by aerobic fermentation process. Write short note on classification of pharmaceuticals. | 07 07 | |
| | ` , | OR | | |
| Q.4 | (a) (b) | Discuss citric acid production with a flowchart along with major applications. Define the term 'Antibiotics'. With neat flow diagram, discuss manufacturing process of Erythromycin | 07 07 | |
| Q.5 | (a) (b) | Explain manufacturing of aspirin with suitable flow sheet? Describe in brief: red pigment and blue pigment. OR | 07 07 | |
| Q.5 | (a) (b) | Explain beer manufacture with a suitable flow diagram. Explain paint manufacturing process in brief. | 07 07 | |
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