

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B. Pharm. – SEMESTER – VIII • EXAMINATION – WINTER • 2016**

**Subject Code: 2280003**

**Date: 24-11-2016**

**Subject Name: Pharmaceutical Chemistry-X (Medicinal Chemistry -III)**

**Time: 02:30 pm - 05:00 pm**

**Total Marks: 80**

**Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Define and classify Antihyperlipidemic Agents. Give the structural Formula of any three drugs belonging to different class. **06**
- (b) Discuss the SAR among HMG CoA Reductase inhibitors. **05**
- (c) Give the method of synthesis of  
(i) Clofibrate (ii) Warfarin **05**
- Q.2** (a) Define and classify Diuretic Agents. Give the structural formula of any three drugs belonging to different class. **06**
- (b) Discuss the SAR among  
(i) Thiazide Diuretics (ii) 5- Sulfamoyl Benzoic acid derivatives. **05**
- (c) Give the method of synthesis of  
(i) Ethacrinic acid (ii) Furosemide **05**
- Q.3** (a) Write short note on Coagulants and Anti- Coagulants **06**
- (b) Write informative note on Anti platelet Agents **05**
- (c) Discuss detail about Plasma expanders **05**
- Q.4** (a) Write detail note on Cardio tonic Agents **06**
- (b) Write informative note on Anti-obesity Agents **05**
- (c) What do you understand by Immunomodulators? **05**
- Q.5** (a) Define and classify Hypoglycemic Agents. Illustrate your answer with specific examples **06**
- (b) Give the method of synthesis and uses of  
(i) Glimipride (ii) Pioglitazone **05**
- (c) Give the synthesis and uses of  
(i) Methimazole (ii) Tolbutamide **05**
- Q.6** (a) Explain in detail the nomenclature and stereochemistry of Steroidal Compounds. **06**
- (b) Write Short note on Adrenocorticoids **05**
- (c) Write brief note on Sex Hormones. **05**
- Q.7** (a) Define and classify Antihypertensive Agents with suitable examples. **06**
- (b) Give the synthesis and uses of  
(i) Amlodipine (ii) Atenolol **05**
- (c) Write informative note on Anti angial Agents. Give the synthesis of Isosorbidedinitrate **05**

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