

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**B. Pharm. – SEMESTER – VI • EXAMINATION – WINTER • 2016**

**Subject Code: 260004**

**Date: 24-10-2016**

**Subject Name: Pharmaceutical Chemistry-VIII (Medicinal Chemistry)**

**Time: 02.30 pm To 05.30 pm**

**Total Marks: 80**

**Instructions:**

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

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|-------------|---|-----------|
| <b>Q.1</b>  | (a) What is xenobiotics? Describe Phase-I of Xenobiotic metabolism.   | <b>06</b> |
|             | (b) Describe factors affecting drug metabolism.   | <b>05</b> |
|             | (c) Write in detail Drug receptor interaction.  | <b>05</b> |
| <b>Q.2</b>  | (a) Give synthesis of any two of the following 1) Neostigmine 2) Salbutamole 3) Dopamine  | <b>06</b> |
|             | (b) Describe SAR of Parasympathomimetics in detail.   | <b>05</b> |
|             | (c) Write a detail note on Antiparkinson's agents   | <b>05</b> |
| <b>Q.3</b>  | (a) What are antidepressant drugs? Classify them in detail.   | <b>06</b> |
|             | (b) Write note on General anesthetics.  | <b>05</b> |
|             | (c) Write detail SAR of Barbiturate derivatives.  | <b>05</b> |
| <b>Q.4</b>  | (a) What are Sedative and Hypnotics. Classify them in detail.   | <b>06</b> |
|             | (b) What is Alzheimer's disease? Discuss its treatment  | <b>05</b> |
|             | (c) Explain NSAIDs in detail.   | <b>05</b> |
| <b>Q.5</b>  | (a) Give structure and use of the following ( 1) Chlorpromazine 2) Paracetamol 3) Morphine 4) Diclofenac 5) carbamazepine 6) Mefenamic acid | <b>06</b> |
|             | (b) Discuss in detail about Sympatholytic agent.  | <b>05</b> |
|             | (c) Write a note on Anticholinesterase.   | <b>05</b> |
| <b>Q. 6</b> | (a) What are Opioid analgesics? Write mechanism of actions and Classification of Opioid analgesics.   | <b>06</b> |
|             | (b) Write a note on Neuromuscular Blocking agents.  | <b>05</b> |
|             | (c) Write detailed SAR of Parasympatholytics.   | <b>05</b> |
| <b>Q.7</b>  | (a) Give synthetic scheme of any 2 of the following 1) Lignocaine 2) Allopurinole 3) Adrenaline   | <b>06</b> |
|             | (b) Classify Local Anesthetics in detail.   | <b>05</b> |
|             | (c) Write a note on Antiepileptic agents.   | <b>05</b> |

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