Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY **B.Pharm-SEMESTER-VI- (OLD SYLLABUS) EXAMINATION – SUMMER-2015** Subject Code: 260004 Date: 07/05/2015 **Subject Name Pharmaceutical Chemistry VIII (Medicinal Chemistry)** Time: 10:30 a.m. to 1:30 p.m. **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** Discuss different types of receptors and Drug – receptor interaction. **06** (a) What are the different factors affecting drug receptor interaction. What are cholinergics? Classify. Discuss SAR of Cholinergics. (b) 05 Write note on Neuromuscular blocking agents. 05 (c) **Q.2** (a) What is drug metabolism? Discuss factors affecting drug 06 metabolism. Classify Anti cholinergics? Discuss SAR of muscarinic antagonists. (b) 05 (c) Discuss brief about adrenergic blockers. Write synthesis of 05 Salbutamol. **Q.3** What is Epilesy? Discuss different drugs used in the treatment of 06 (a) grand mal epilepsy. Classify sedative and Hypnotics. Discuss SAR of Benzodiazepines. 05 (b) Write brief note on Opiod analgesics. 05 (c) Discuss SAR of Barbiturates. Classify barbiturates based on **Q.4** (a) 06 duration of action. Write note on drugs used in the treatment of Alzheimer's disease. 05 (b) What is Anaesthesia? Write note on General Anaesthetic agents. 05 (c) **Q.5** (a) What are local anaesthetics? Discuss general SAR of local 06 anaesthetic agent. Write note on Drugs used as Anxiolytics. 05 (b) Write synthesis of any two (i) Lignocaine (ii) Phenytoin (iii) (c) 05 Pethidine. **O.** 6 What are antipsychotic drugs? Discuss SAR of Phenothiazines used 06 (a) as antipsychotics. Write brief note on drugs used as CNS stimulants. 05 (b) (c) Write synthesis of (i) Amphetamine (ii) Ibuprofen 05

What are antidepressants? Classify. Write brief note on Tricylic

What are Non steroidal anti-inflammatory drugs (NSAIDs)? Discuss

06

05

05

Q.7

(a)

(b)

(c)

antidepressants.

salicylates used as NSAIDs.

Write note on 'Antiparkinson's agent'.