

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – V • EXAMINATION – WINTER • 2014

Subject Code: 250005

Date: 05-12-2014

Subject Name: Pharmacology - II

Time: 10:30 am - 01:30 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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|-------------|---|-----------|
| Q.1 | (a) Classify antiparkinsonian drugs. Discuss mechanism of action, therapeutic benefits and adverse effects of Entacapone. | 06 |
| | (b) Explain neurochemical basis of extrapyramidal side effects. Justify the usage of anticholinergic agents in schizophrenic patients. | 05 |
| | (c) Write a note on GABA as a neurotransmitter in the CNS. | 05 |
| Q.2 | (a) Classify antiepileptic agents. Explain pharmacodynamics of Phenytoin. | 06 |
| | (b) Classify antipsychotic agents. Why atypical antipsychotic agents are preferred over typical antipsychotic agents? | 05 |
| | (c) Differentiate followings: (Any two)
i) Barbiturates and Benzodiazepines
ii) TCAs and SSRIs
iii) MAO-A and MAO-B inhibitors | 05 |
| Q.3 | (a) Classify antihypertensive agents. Explain mechanism of action, therapeutic uses and adverse effects of calcium channel blockers. | 06 |
| | (b) Define CHF. Describe the pharmacological actions of digitalis in CHF. | 05 |
| | (c) Classify diuretics on the basis of their sites of action. | 05 |
| Q.4 | (a) Write in brief the mechanism of action of following drugs.
i. Guanethidine ii. Amlodipine iii. Buspirone
iv. Rosuvastatin v. Disulfiram vi. Losartan | 06 |
| | (b) Write a note on methyl alcohol poisoning. Why ethyl alcohol is used in methyl alcohol poisoning? | 05 |
| | (c) Discuss mechanisms of action of Antiplatelet drugs. | 05 |
| Q.5 | (a) Classify thrombolytic agents. Write a short note on tissue plasminogen activators. | 06 |
| | (b) Enumerate applications of gene therapy. Briefly explain various techniques of gene transfer. | 05 |
| | (c) Write a note on Haematinics. | 05 |
| Q. 6 | (a) Classify Hypnotic and Sedatives. Describe pharmacology of Barbiturates. | 06 |
| | (b) Classify lipid lowering agents. Write a note on Fibrates. | 05 |
| | (c) Explain mechanism of action and therapeutic uses of:
i. Celecoxib ii. Naloxone | 05 |
| Q.7 | (a) Classify NSAIDs with examples. Explain therapeutic uses of Aspirin. | 06 |
| | (b) Describe pharmacological actions of morphine. | 05 |
| | (c) Discuss in detail the importance of pre-anaesthetic medications? | 05 |
