

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. / M. Ph. / D.Ph. - SEMESTER-II • EXAMINATION – WINTER-2016

Subject Code: 420003**Date: 24/10/2016****Subject Name: Pharmacology & Toxicology****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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| Q.1 | (a) | Enlist the routes of drug administrations. Explain merits and demerits of oral routes of administration. | 06 |
| | (b) | Describe the different stages of anesthesia. | 05 |
| | (c) | Classify the drug used as hypnotic or sedatives. Explain the mechanism of action and therapeutic uses of barbiturates. | 05 |
| Q.2 | (a) | Classify parasympatholytic drugs and explain mechanism of action, Therapeutic and pharmacological uses and side effects of atropine. | 06 |
| | (b) | What is Glaucoma? Explain the drugs used in Glaucoma. | 05 |
| | (c) | What is Myasthenia gravis? Explain the drugs used in Myasthenia gravis. | 05 |
| Q.3 | (a) | Classify the anti hypertensive drugs. Explain the mechanism of action and therapeutic uses of diuretics. | 06 |
| | (b) | Write short note on Co-Trimoxazole. | 05 |
| | (c) | What is prodrug? Explain the significance of prodrug with suitable examples. | 05 |
| Q.4 | (a) | What is cardiotonics? Explain the mechanism of action and pharmacological uses of digitalis. | 06 |
| | (b) | Explain the life cycle of malarial parasite. | 05 |
| | (c) | Explain the factors affecting on drugs bioavailability. | 05 |
| Q.5 | (a) | Classify anti cancer drugs based on cell cycle. Explain mechanism of action, Pharmacological action and side effects of methotrexate. | 06 |
| | (b) | Explain the pathophysiology of vomiting. Explain the role of domperidone as anti emetics. | 05 |
| | (c) | Explain the followings:
1. Jarisch Herxheimer Reaction.
2. Dale's Vasomotor Reversal | 05 |
| Q. 6 | (a) | Classify the chemotherapeutic agents according to mechanism of action of drugs. | 06 |
| | (b) | Classify antianginal drugs. Explain mechanism of action, Pharmacological action and side effects of nitrates. | 05 |
| | (c) | Classify the anti viral drugs. Explain life cycle of virus. | 05 |
| Q.7 | (a) | Give the reason for followings:
1. Atropine is used as preanaesthetic medication.
2. Tetracycline is contraindicated in pregnant woman.
3. Antibiotics are generally given in combination. | 06 |
| | (b) | Classify anti ulcer drugs. Explain mechanism of action, Pharmacological action and side effects of PPIs. | 05 |
| | (c) | Why levodopa and carbidopa are generally given in combination. | 05 |