

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Pharm- SEMESTER IV – EXAMINATION – SUMMER -2021**

**Subject Code:BP404TP****Date:06/08/2021****Subject Name: PHARMACOLOGY I****Time: 10:30AM TO 01:30PM****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) | Enlist routes of drug administration. Give the advantages and disadvantages of intravenous route of drug administration. | <b>06</b> |
|            | (b) | Classify local anesthetics. Write mechanism and ADRs of lidocaine.   | <b>05</b> |
|            | (c) | Write short note on Plasma protein binding.  | <b>05</b> |
| <b>Q.2</b> | (a) | Classify various types of drug interaction. Discuss pharmacokinetic drug interaction with suitable example.              | <b>06</b> |
|            | (b) | Explain various phases of clinical trial in details.   | <b>05</b> |
|            | (c) | Write short note on rationale use of medicines.  | <b>05</b> |
| <b>Q.3</b> | (a) | Classify receptors. Write a short note on G- protein coupled receptor.   | <b>06</b> |
|            | (b) | Write a detail note on pre-anesthetics.  | <b>05</b> |
|            | (c) | Write a note on drug information Centre.   | <b>05</b> |
| <b>Q.4</b> | (a) | Define adverse drug reaction. Classify ADRs as per Rawlins Thompson system with suitable examples.                       | <b>06</b> |
|            | (b) | Describe pharmacological actions of serotonin.   | <b>05</b> |
|            | (c) | Write pharmacological actions morphine.  | <b>05</b> |
| <b>Q.5</b> | (a) | Classify sympathomimetic drugs. Write pharmacological actions of adrenaline.   | <b>06</b> |
|            | (b) | Discuss various factors affecting drug absorption from GI.   | <b>05</b> |
|            | (c) | Enlist drugs used in glaucoma. Write a detail note on use of $\beta$ -blockers in glaucoma.                              | <b>05</b> |
| <b>Q.6</b> | (a) | Explain patient counseling along with communication skills required for counseling.                                      | <b>06</b> |
|            | (b) | Classify antiepileptic drugs. Write pharmacology of phenytoin.   | <b>05</b> |
|            | (c) | Explain microsomal enzyme induction and inhibition with suitable examples.   | <b>05</b> |
| <b>Q.7</b> | (a) | Classify antiparkinson drugs. Write mechanism, ADRs and therapeutic uses of carbidopa.                                   | <b>06</b> |
|            | (b) | Define sedative and hypnotics. Explain pharmacology of benzodiazepine.   | <b>05</b> |
|            | (c) | Classify anticholinesterase. Write therapeutic uses of them.   | <b>05</b> |

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