

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.Ph. – SEMESTER - V • EXAMINATION – WINTER -2019**

**Subject Code: BP502TP****Date: 18/11/2019****Subject Name: Pharmacology - II****Time: 02:30PM TO 05:30PM****Total Marks: 80****Instructions:**

1. Question no. 1 is compulsory.
2. Attempt any four questions from question no. 2 to 7.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

- Q.1 Each sub questions carry one mark. Answers are to be given in one line** **16**
- (i) Which enzyme is inhibited by Enalapril to give its anti-hypertensive action?
  - (ii) Give the name of anticoagulant substance which is naturally found in liver.
  - (iii) Which enzyme is inhibited by Acetazolamide to give its diuretic action?
  - (iv) Which enzyme is inhibited by Celecoxib to give its analgesic action?
  - (v) Which substance's synthesis is inhibited by Allopurinol to give its anti-gout action?
  - (vi) Methimazole is an example of which category of drug?
  - (viii) Which enzyme is inhibited by Digoxin to give its cardiotonic action?
  - (viii) Give the name of drug used in hypertension which is  $\alpha_2$  adrenoceptor agonist.
  - (ix) Urokinase is an example of which category of drug?
  - (x) Which receptor is inhibited by Diphenhydramine?
  - (xi) Pioglitazone is potent agonist for which receptor?
  - (xii) Give the name of drug which is used in migraine as 5-HT<sub>1D</sub> receptor agonists.
  - (xiii) Give the name of natural mineralocorticoids.
  - (xiv) Which enzyme is inhibited by Simvastatin to give anti-hyperlipidemic action?
  - (xv) Ticlopidine comes under which category of drug?
  - (xvi) Which receptor is inhibited by Montelukast?
- Q.2 (a)** Give the mechanism of action, adverse effects and therapeutic uses of Simvastatin. **06**
- (b)** Give the pharmacological actions of digoxin. **05**
- (c)** Classify the anti-hypertensive agents. **05**
- Q.3 (a)** Give the mechanism of action, adverse effects and therapeutic uses of Amiodarone. **06**
- (b)** Give the therapeutic uses and adverse effect of Warfarin Sodium. **05**
- (c)** Give the classification of diuretics according to potency and site of action. **05**

<b>Q.4</b>	<b>(a)</b>	Give the pharmacological actions of salicylates	<b>06</b>
	<b>(b)</b>	Write a short note on plasma volume expanders	<b>05</b>
	<b>(c)</b>	Give the adverse effect and therapeutic uses of H <sub>1</sub> receptor antagonist	<b>05</b>
<b>Q.5</b>	<b>(a)</b>	Give the mechanism of action and therapeutic uses of Allopurinol.	<b>06</b>
	<b>(b)</b>	Write a short note on SERMs	<b>05</b>
	<b>(c)</b>	Classify the anti-thyroid drugs. Give the adverse effect of methylthiouracil.	<b>05</b>
<b>Q. 6</b>	<b>(a)</b>	Give the pharmacological actions of insulin.	<b>06</b>
	<b>(b)</b>	Give the principles and applications of bioassay.	<b>05</b>
	<b>(c)</b>	Give the mechanism of action and adverse effect of Nitrites.	<b>05</b>
<b>Q.7</b>	<b>(a)</b>	Give the mechanism of action and adverse effect of glucocorticoids.	<b>06</b>
	<b>(b)</b>	Give the therapeutic uses and adverse effects of oxytocin.	<b>05</b>
	<b>(c)</b>	Explain the mechanism of action and adverse effect of Sulfonylureas.	<b>05</b>

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