- 5. Explain the mechanism of action of insulin with diagram? Write the preparation of insulin.
- 6. What is the therapeutic utility and side effects of testosterone and anabolic steroids?
- 7. What are antithrombic agents? Classify them with example.
- 8. Write the therapeutic utility of serotonin receptor agonists and antagonists.
- 9. Classify diuretics with example and mention their therapeutic utility.

\*\*\*

2023/SEM/ODD/BP-503T/006

#### 2023/SEM/ODD/BP-503T/006

# UG Odd Semester (CBCS) Examination, March 2023 PHARMACEUTICAL SCIENCES

(5th Semester)

Course No: BP 503T

(Pharmacology II-Theory)

Full Marks: 75

Time: 3 Hours

The figures in the margin indicate full marks for the questions

#### I (A). Multiple choice questions

1x10=10

- 1. Serotonin produce prokinetic effect by acting in which receptor
  - i) 5HT1

ii) 5HT2

iii) 5HT3

- iv) 5HT4
- 2. Choice of drug for ventricular tachycardia is
  - i) Quinidine
- ii) Lidocaine
- iii) Verapamil
- iv) Propranolol
- 3. Which one of the following is antithrombin independent anticoagulant?
  - i) Enoxaparin
- ii) Dalteparin
- iii) Fondaparinux
- iv) Lepirudin-
- 4. Which one of the following antirheumatoids interfere with complement activation?
  - i) Gold salt
- ii) Diclofenac
- iii) Chloroquine
- iv) Penicillamine

- 5. Which one of the following is inhibitor of calcineurin?
  - i) Infliximab
- ii) Chlorambucil
- iii) Cyclosporiniv
- iv) Anakinara
- 6. Turners' Syndrome is due to deficiency of which hormone?
  - i) Testosterone
- ii) Progesterone
- iii) Oestradiol
- iv) Prolactine
- 7. Which prostaglandin is responsible to raise temperature set point at hypothalamus
  - i) PGE2

ii) PGF2∞

iii) PGD2

- iv) PGI2.
- 8. Which autocoid stimulate nerve ending of fibre C to produce burning and pain sensation
  - i) Angiotensin
- ii) Bradykinin
- iii) Prostacycline
- iv) Leoukotrienes
- 9. Which adverse reaction of nimesulide caused to ban the drug in several country
  - i) Cardiotoxicity
- ii) Hepatotoxicity
- iii) Nephrotoxicity
- iv) Gastric irritation
- 10. Give the choice of diuretic drug in Conn's Syndrome?
  - i) Chlorthiazide
- ii) Spironolactone
- iii) Acetazolamide
- iv) Furosemide

### I (B). Objective type (Answer the following in brief)

2x5=10

1. Triple response of histamine

- 2. Mechanism involved for hematinic property of Viamin B12and folic acid.
- 3. Mechanism of organic nitrates.
- 4. Significance of vitamin K
- 5. Cardiac condition that indicate use of propranolol.

### II. Long answers (Answer two out of three questions)

10x2=20

- 1. Write the indication and general principle of bioassay. Describe bioassay of insulin. 5+5=10
- 2. Classify antihypertensive agents with example.

  Discuss the mechanism, uses and side effects of methyldopa 5+5=10
- 3. Write the distribution and mechanism of endogenous release and action of histamine in our body.

  4+6 = 10

## III. Short answers (Answer seven out of nine questions) 5x7=35

- 1. Classify anti-arrhythmic drugs with example. Write the indication for use of propranolol.
- 2. Give an account of drugs used in congestive heart failure and the mechanism of action of digitalis.
- 3. What areantihistaminic? Discuss their therapeutic utility with example.
- 4. Write mechanism of action and uses of heparin