

Time: 3 Hours

Marks: 75

Q.1. Choose an appropriate option for the following multiple choice based questions.

(20M)

- 1 Therapeutic use of nifedipine
  - a Hypertension
  - b Cardiac stimulant
  - c Arrhythmia
  - d Hyperlipidaemia
- 2 A cardiac stimulant drug
  - a Dobutamine
  - b Enalapril
  - c Captopril
  - d Methyldopa
- 3 Rhabdomyolysis is adverse effect of
  - a Calcium channel blockers
  - b Cardiac glycosides
  - c Organic nitrates
  - d HMG COA reductase
- 4 The antiarrhythmic drug with multiple action
  - a Amiodarone
  - b Flecainide
  - c Propranolol
  - d Diltiazem
- 5 Thiazide diuretics primarily acts on which part of the nephron.
  - a Proximal convoluted tubule
  - b Loop of Henle
  - c Collecting duct
  - d Distal convoluted tubule
- 6 \_\_\_\_\_ is the common adverse effect of oral iron supplement.
  - a Constipation
  - b Hypotension
  - c Hyperkalaemia
  - d Hyponatremia
- 7 Clopidogrel is \_\_\_\_\_
  - a Glycoprotein IIb/IIIa inhibitor
  - b Adenosine diphosphate (ADP) receptor antagonist
  - c Direct thrombin inhibitor
  - d Vitamin K antagonist

- 8 \_\_\_\_\_ is the main pharmacological action of Vasopressin when used in shock therapy.
- Beta-1 adrenergic receptor stimulation
  - Alpha-1 adrenergic receptor stimulation
  - Direct vasoconstriction via V1 receptors \*
  - Increased renal perfusion
- 9 Histamine causes \_\_\_\_\_ in blood vessels.
- Contraction ,
  - Dilatation
  - Stimulation
  - Decreased secretion
- 10 Drug that reduces uric acid secretion
- Leflunomide
  - Allopurinol ,
  - Adalimumab
  - Methotrexate
- 11 \_\_\_\_\_ is the irreversible COX inhibitors
- Celecoxib
  - Aspirin ,
  - Acetaminophen
  - Indomethacin
- 12 Which of the following drug acts primarily by inhibiting the storage of 5-HT
- Reserpine
  - Quetiapine
  - Clozapine ,
  - Buspirone
- 13 \_\_\_\_\_ is beneficial in NSAIDS induced gastric ulcer
- Indomethacin
  - Ibuprofen ,
  - Celecoxib
  - Cimetidine
- 14 What is the primary indication of recombinant human growth hormone
- Gigantism ,
  - Dwarfism
  - Acromegaly
  - Cretinism
- 15 \_\_\_\_\_ is the most prominent side effect of therapeutic insulin.
- Neuropathy
  - Nephropathy
  - Hyperglycaemia ,
  - Hypoglycaemia
- 16 \_\_\_\_\_ is the common endocrine effect of long-term oral corticosteroid therapy
- Hyperthyroidism
  - Hypogonadism
  - Addison's disease
  - Cushing's syndrome ~

- 17 High level of estrogen is responsible for \_\_\_\_\_
- Increased risk of lung cancer
  - Increased risk of stomach cancer
  - Increased risk of breast cancer
  - Swelling in joints
- 18 Drug act as a tocolytic agent
- Misoprostol
  - Ritodrine
  - Ergometrine
  - Oxytocin
- 19 \_\_\_\_\_ is used for uterine contraction
- Estrogen
  - Oxytocin
  - Glucocorticoids
  - Adrenaline
- 20 The most precise and accurate bioassay method is
- Interpolation bioassay method
  - Matching bioassay method
  - Three point bioassay method
  - Bracketing bioassay method

**Q.2. Long Answers (Answer Any 2 out of 3) (20M)**

- Classify antihypertensive based on mechanism of action. Add note on calcium channel blockers
- Classify anti-coagulants. Give mechanism of action, uses and adverse effects of parenteral indirect thrombin inhibitor
- Classify antirheumatic drugs and Give mechanism of action and adverse effect of any two class of drugs.

**Q.3. Short Answers (Answer 7 out of 9) (35M)**

- Classify the antianginal drugs. Add note on any one class.
- Give detailed mechanism of action of cardiac glycoside and statins
- Name two plasma volume expanders and elaborate each of them.
- Compare and contrast first and second generation H-1 blockers
- Give an elaborative account on regulation of plasma calcium level by parathormone.
- Name any two thyroid hormone analogues. Give mechanism of action and uses of the thyroid hormone analogue.
- Classify oral hypoglycaemic drugs. Give mechanism of action and adverse effects of anyone insulin sensitizer.
- Give a note on anabolic steroids
- Discuss in detail bioassay of ACTH.

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