

Time: 3Hours

Marks: 75

Q.1. Choose an appropriate option for the following multiple choice based questions. (20M)

- 1 Therapeutic use of colestipol
  - a Hypertension
  - b Cardiac stimulant
  - c Arrhythmia
  - d Hyperlipidaemia
- 2 The calcium channel blockers act on
  - a L type calcium channels
  - b T type calcium channels
  - c N type calcium channels
  - d C type calcium channels
- 3 Angiotensin receptor blockers are preferred over angiotensin converting enzyme inhibitors because
  - a Later cause increase in bradykinin and hence dry cough
  - b Later cause increase in bradykinin and hence postural hypotension
  - c Later cause increase in prostaglandins and hence hypertension
  - d Later cause increase in prostaglandin and hence peptic ulcer
- 4 An antianginal potassium channel opener
  - a Verapamil
  - b Dipyridamole
  - c Nicorandil
  - d Isosorbide trinitrate
- 5 \_\_\_\_\_ is the common clinical symptoms in every type of shock.
  - a Hypertension
  - b Hypotension
  - c Hypervolemia
  - d Increased cardiac output
- 6 \_\_\_\_\_ is the systemic haemostatic agent
  - a Fibrin glue
  - b Gelatin sponge
  - c Fresh frozen plasma
  - d Silver nitrate
- 7 \_\_\_\_\_ is the primary mechanism of loop diuretics.
  - a Inhibition of  $\text{Na}^+/\text{K}^+ / 2\text{Cl}^-$  symporter in the ascending loop of Henle
  - b Inhibition of  $\text{Na}^+/\text{Cl}^-$  symporter in the distal convoluted tubule
  - c Blockade of aldosterone receptors in the collecting duct
  - d Osmotic diuresis in the proximal tubule

- 8 An NSAID that can be used as an anti-platelet drug
- Clopidogrel
  - Prasugrel
  - Ticagrelor
  - Aspirin
- 9 \_\_\_\_\_ eicosanoids responsible for platelet aggregation.
- Leukotrienes
  - Prostaglandin
  - Thromboxane A<sub>2</sub>
  - Prostacyclin
- 10 A drug with least anti-inflammatory action
- Indomethacin
  - Paracetamol
  - Ketorolac
  - Ibuprofen
- 11 Leukotrienes are synthesized by \_\_\_\_\_ pathway of arachidonic acid metabolism
- Cyclooxygenase
  - Lipoxygenase
  - Thromboxane
  - Prostacyclin
- 12 Select the first choice drug for acute gout
- Colchicine
  - Indomethacin
  - Etanercept
  - Dexamethasone
- 13 The reduced gastric mucosal damage is advantage of \_\_\_\_\_
- COX-2 inhibitors
  - COX-1 inhibitors
  - Nonselective COX inhibitors
  - Nonselective COX agonist
- 14 \_\_\_\_\_ is the active form of Vitamin D that regulates plasma calcium level
- Calciferol
  - Cholecalciferol
  - Calcitriol
  - Calcitonin
- 15 \_\_\_\_\_ is the major adverse effect of long-term oral corticosteroid therapy
- Hyperthyroidism
  - Osteoporosis
  - Weight loss
  - Hypotension

- 16 Dipeptidyl peptidase-4 inhibitors lead to
- Inactivates glucagon-like peptide
  - Increases the level of active glucagon-like peptide
  - Reduce insulin secretion
  - Increase glucagon secretion
- 17 Letrozole is a
- Oral contraceptive pill
  - Estrogen agonist
  - Progesterone antagonist
  - Aromatase inhibitors
- 18 Estrogen basic mechanism of action is
- To stimulation of glucose uptake
  - To regulate the development and function of the uterus
  - To stimulates the production of red blood cells
  - To regulate the glucocorticoid (steroid) hormone cortisol
- 19 An antiandrogenic drug
- Mifepristone
  - Flutamide
  - Tamoxifen
  - Clomiphene citrate
- 20 Bioassay method is used for-
- Evaluation of biological activity
  - Statistical data calculation
  - Stability study
  - Selection of new compound

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

**(20M)**

- Give detailed pharmacotherapy of arrhythmia
- Classify anti-platelet drugs. Give mechanism of action, uses and adverse effects of an irreversible COX inhibitor.
- Classify DMARDs in detail and write an elaborative account on any one class

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

**(35M)**

- Give a detailed note on Fibrates
- Discuss in detail sympathetic inhibitors as antihypertensive drugs
- Classify anti-diuretics. Give mechanism of action and uses of a vasopressin analogue.
- Give a note on bradykinin and substance P.
- Give an elaborative account on therapeutic uses of somatotropin and somatostatin
- Give a detail account on anyone insulin secretagogue with respect to its mechanism of action, uses and adverse effects.
- Elaborate on radioactive iodine as an anti-thyroid therapy
- Give a note on oral contraceptives
- Discuss in detail bioassay of insulin

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