

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 $\text{Na}^+/\text{K}^+/\text{2Cl}^-$ symporter in the ascending loop of Henle
 - b Inhibition of Na^+/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 A₂
 - 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
