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BP 503 T

2024

B.Pharm. 5th Semester End-Term Examination

PHARMACOLOGY — II

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following (Multiple Choice Questions) : 1 × 20
- (i) Which of the following is a loop diuretic?
- (a) Hydrochlorothiazide (b) Furosemide
(c) Spironolactone (d) Amiloride
- (ii) Which of the following drug is used to treat SIADH (syndrome of Inappropriate Antidiuretic Hormone Secretion)?
- (a) Desmopressin (b) Tolvaptan
(c) Vasopressin (d) Furosemide
- (iii) Which class of drugs is preferred as first-line therapy for hypertension in diabetic patients?
- (a) Beta-blockers (b) ACE inhibitors
(c) Calcium channel blockers (d) Alpha-blockers
- (iv) Which of the following drugs doesn't cause hypokalemia?
- (a) Torsemide (b) Spironolactone
(c) Chlorothiazide (d) Mannitol
- (v) Select the drug of choice for patients with hypertension and benign prostatic hyperplasia (BPH) from the options below
- (a) Reserpine (b) Atenolol
(c) Prazosin (d) Carvedilol

[Turn over

- (vi) Nitroglycerin relieves angina pain primarily by
- Reducing heart rate
 - Dilating coronary arteries
 - Reducing preload and afterload
 - Increasing myocardial oxygen demand
- (vii) Which of the following drugs is a Class III antiarrhythmic agent?
- Amiodarone
 - Verapamil
 - Lidocaine
 - Adenosine
- (viii) Which of the following lipid-lowering drugs inhibits HMG-CoA reductase?
- Atorvastatin
 - Gemfibrozil
 - Ezetimibe
 - Niacin
- (ix) What is the mechanism of action of ACE inhibitors?
- Block calcium channels
 - Inhibit angiotensin II formation
 - Increase sodium excretion
 - Block aldosterone receptors
- (x) Which of the following drugs shows the coronary stealing phenomenon and worsens the condition of "myocardial ischemia"?
- Furosemide
 - Nitroglycerine
 - Amiloride
 - Dipyridamole
- (xi) Which of the following is the Drug of Choice for the treatment of anaphylactic shock?
- Isoprenaline
 - Adrenaline
 - Non-adrenaline
 - Terbutaline
- (xii) Acetazolamide is
- Competitive and reversible carbonic anhydrase inhibitor
 - Non-Competitive and reversible carbonic anhydrase inhibitor
 - Competitive and irreversible carbonic anhydrase inhibitor
 - Non-Competitive and irreversible carbonic anhydrase inhibitor
- (xiii) Drug of choice for chemotherapy-induced anaemia
- Ferrous sulphate
 - Vitamin B₁₂
 - Folic acid
 - Erythropoietin

(xiv) Which of the following drugs does not act by blocking GP IIb/IIIa receptors?

- (a) Abciximab
- (b) Eptifibatide
- (c) Tirofiban
- (d) Clopidogrel

(xv) Select the 5HT_{1A} partial agonist which is used as an Antianxiety drug

- (a) Ondansetron
- (b) Clozapine
- (c) Cisapride
- (d) Buspirone

(xvi) Which is not a 2nd generation anti-histaminic agent?

- (a) Cetirizine
- (b) Cyclizine
- (c) Loratadine
- (d) Fexofenadine

(xvii) All of the following can be used for prophylaxis of migraine except

- (a) Sumatriptan
- (b) Valproate
- (c) Propranolol
- (d) Topiramate

(xviii) Hyperprolactinemia is a side effect of which of the following drugs?

- (a) Bromocriptine
- (b) Metaclopramide
- (c) Levothyroxine
- (d) Spironolactone

(xix) Select the antithyroid drug that is considered safe during 1st trimester of pregnancy

- (a) Methimazole
- (b) Carbimazole
- (c) Propylthiouracil (PTU)
- (d) Radioactive iodine

(xx) All of the statements about exenatide are true except

- (a) It is a GLP-1 analogue
- (b) It can be used for treatment of Type 1 diabetes mellitus
- (c) It is given subcutaneously
- (d) It decreases glucagon

2. Short answer type questions. (Attempt any SEVEN out of NINE)

7 × 5

- (a) Describe different types of plasma volume expansion.
- (b) Write the classification of antidiuretic drugs along with their MOA and side effects.
- (c) Discuss the pharmacological management of Congestive Heart Failure.

- (d) Write down the pharmacological actions of various Prostaglandins (PG) in our body.
- (e) Classify Oral Contraceptives and their MOA.
- (f) Classify Oral Antidiabetics along with their MOA and Adverse effects.
- (g) Discuss the pathology and pharmacotherapy of Migraine.
- (h) Write a short note on Calcium regulation in our body.
- (i) Classify the drugs used in the treatment of Gout and Rheumatoid arthritis.

3. Long answer type questions. (Attempt any TWO out of THREE) 2 × 10

- (a) Classify antihypertensive drugs and explain the mechanism of action, adverse effects and therapeutic uses of ACE inhibitors.
 - (b) Discuss the pharmacological treatment options for angina pectoris, including the mechanisms and side effects of the major drug classes used.
 - (c) Discuss the principle of bioassay. Explain the different types of bioassays along with their advantages and limitations.
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