

BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE)

B. Sc. (Cardiovascular Technology) Sem - III : WINTER :- 2021

SUBJECT: PHARMACOLOGY RELATED TO CARDIAC TECHNOLOGY

Day : Monday
Date 14-02-2022

W-23346-2021

Time : 10:00 AM-12:00 PM
Max. Marks: 60

N.B.

- 1) There are three sections as
Section – A = Objective Type questions - 20 marks.
Section – B = Long Answer questions - 20 marks.
Section – C = Short Answer questions - 20 marks.
- 2) Section A is given in **SEPARATE** sheet and has to be answered on same sheet. This sheet should be completed with the first 20 minutes of starting of the examination. This sheet with Section A only will be collected by Supervisor.
- 3) Section B has four long questions and **ANY TWO** questions have to be answered.
- 4) Section C has six short questions and **ANY FOUR** questions have to be answered.
- 5) You have to make ✓ such kind of mark in the box of the appropriate answers.

Seat No. : _____

SECTION - A

M.C.Q's

(20)

1. All of the following drugs can worsen angina except

- (a) Dipyridamole
- (b) Oxyephedrine
- (c) Thyroxine
- (d) Sumatriptan

2. Which among the following is the best inotrope drug for use in right heart failure?

- (a) Dobutamine
- (b) Digoxin
- (c) Dopamine
- (d) Milrinone

3. All of the following are seen in digitalis toxicity except

- (a) Ventricular bigeminy
- (b) Paroxysmal atrial tachycardia with fast ventricular rate
- (c) Regularization of atrial fibrillation
- (d) Bidirectional ventricular tachycardia

4. Digoxin toxicity is enhanced by all of the following except

- (a) Hyperkalemia
- (b) Hypercalcemia
- (c) Hypomagnesemia
- (d) Renal failure

5. Which of the following is not used in the treatment of pulmonary hypertension?

- (a) Calcium channel blockers
- (b) Alpha blockers
- (c) Prostacyclins
- (d) Endothelin receptor antagonists

6. Nitrates are used for all of the following conditions except?

- (a) Congestive heart failure
- (b) Cyanide poisoning
- (c) Esophageal spasm
- (d) Renal colic

PTO

7. All are toxicities seen with amiodarone therapy except

- (a) Pulmonary fibrosis
- (b) Corneal micro-deposits
- (c) Cirrhosis of liver
- (d) Productive cough

8. Ezetimibe acts by

- (a) Enhanced excretion of bile acids
- (b) Decreased absorption of cholesterol
- (c) Inhibiting HMG-CoA reductase
- (d) Inhibits intracellular lipase

9. A man with chest pain, ST segment depression in leads V1-V4, after one hour should not be given

- (a) Beta blocker
- (b) Thrombolytic
- (c) Morphine
- (d) Aspirin

10. Which of the following is not a frontline antihypertensive agent?

- (a) Enalapril
- (b) Hydrochlorothiazide
- (c) Amlodipine
- (d) Atenolol

Total marks obtained : _____

Signature of Invigilator : _____

Signature of Examiner : _____

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- 4) Answer to both the sections should be written in **SAME** answer book.

SECTION – B

Long answer (Attempt **ANY TWO**) **(20)**

- 1) Enumerate various factors modifying the drug action with suitable example & Add a note on Bioavailability.
- 2) Classify Antianginal drugs write the pharmacological actions & uses of nitrates.
- 3) Classify Beta blockers write pharmacological actions, uses & adverse effects of Propranolol.
- 4) Enumerate drugs used in congestive cardiac failure. Write mechanism of action & adverse effects of Digoxin.

SECTION – C

Short answer (Attempt **ANY FOUR**) **(20)**

- 1) Streptokinase.
- 2) IV fluids (intravenous)
- 3) Aspirin & Paracetamol.
- 4) Explain therapeutic uses of Beta Blockers.
- 5) Mention four uses & two adverse effects of morphine.
- 6) Antiplatelet Drugs.
