

Reason (R). Digoxin has a large volume of distribution

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

xvii. **Assertion (A).** Monteleukast is a mast cell stabilizer

Reason (R). Monteleukast is effective in Aspirin induced and exercise induced asthma.

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

xviii. **Assertion (A).** Methadone is used to decrease withdrawal symptoms in Opioid dependence.

Reason (R). Methadone is a short acting drug

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

xix. **Assertion (A).** Highly plasma protein bound drugs are largely restricted to the vascular compartment.

Reason (R). High degree of plasma protein binding makes the drug short acting.

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true

xx. **Assertion(A).** Sumatriptan is used for the prophylaxis of migraine.

Reason(R). Sumatriptan is a 5-HT_{1D/1B} agonist.

- a) Both A and R are true, and R is the correct explanation of A
- b) Both A and R are true, and R is not the correct explanation of A
- c) A is true but R is false
- d) A is false but R is true



Question numbers (xi-xv) are Case scenario based:

A 40 year old male suffered from attacks of chest pain and was diagnosed with Angina pectoris. On examination, his BP was found to be 170/110mm Hg. Lab investigations show FBS-160 mg/dl and serum cholesterol level was 270 mg/dl.

xi. Which of the following antihypertensives is most suitable for initial therapy in this patient?

- a) Nifedipine b) Hydrochlorothiazide c) Enalapril d) Propranolol

xii. Which of the following drugs is used to reduce the frequency of angina pectoris as well as to terminate an acute attack:

- a) Isosorbide dinitrate b) Pentaerythritol tetranitrate
c) Diltiazem d) Dipyridamole

xiii. The patient was started on Atorvastatin for his raised cholesterol levels. The most common side effect of this drug is:

- a) Alopecia b) Onycholysis c) Muscle ache d) Nephrotoxicity

xiv. Which of the following drugs can be used in Hypertensive emergency **except**:

- a) Nicardipine b) Glyceryl trinitrate
c) Sodium nitroprusside d) Propranolol

xv. Which of the following antihypertensive combinations is irrational and therefore should **not** be used?

- a) Nifedipine + Hydralazine b) Amlodipine + Atenolol
c) Enalapril + Clonidine d) Enalapril + Hydrochlorothiazide

Question numbers (xvi-xx) consists of two statements - Assertion (A) and Reason (R).

Answer these questions by selecting the appropriate options given below.

xvi. **Assertion (A).** Digoxin toxicity is difficult to be treated by hemodialysis



IV.Short Answers:

(6 x 4 = 24 Marks)

- ES }
BR }
VKT }
10. Therapeutic uses and adverse effects of Frusemide.
 11. Write briefly about the use of Prostaglandin analogues in Glaucoma
 12. Choose the appropriate drug and justify your choice: Ketorolac / Morphine in a patient with head injury.
 13. Write briefly about Z compounds.
 14. What are the therapeutic uses and adverse effects of Lignocaine ?
 15. How will you motivate a patient with hyperlipidaemia to adhere to your prescribed management ?



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II. Long Essays:

(2 x 10 = 20 Marks)

2. Enumerate FOUR groups of Antidepressants with ONE example each. What are the uses of these drugs other than in Endogenous depression? Write briefly about Selective Serotonin Reuptake Inhibitors. (4 + 3 + 3 = 10)
3. A 30 year old man developed the following manifestations a minute after he received an injection of a radiocontrast media - wheezing, urticarial rashes with severe itching and progressive difficulty in breathing. His B.P. was recorded as 90/30 mm of Hg.
- a) What is your diagnosis? Write the drug of choice for this situation with the dose and strength. Describe the pharmacological basis for the use of this drug in this condition
- b) What is its preferred route of administration? Write the rationale for preference of this route over other routes.
- c) What other measures should you take to manage this condition?
- d) Write TWO drugs useful to raise bloodpressure in hypotensive states. Explain the mechanism of action of any one of them. (3 + 2 + 3 + 2 = 10)

III. Short Essays:

(6 x 6 = 36 Marks)

4. Write briefly about drug therapy in Myocardial infarction with the rationale for their use. Discuss the mechanisms of action of Antiplatelet drugs. (4+2 marks)
5. Enumerate THREE drug groups used in treatment of Bronchial asthma with the rationale for use. How will you manage Status epilepticus? (3 + 3 marks)
6. Write the therapeutic uses and adverse effects of Neostigmine. Write briefly about parenteral iron preparations. (3 + 3 marks)
7. Describe the drugs used for Preanaesthetic medication. Write briefly about peripherally acting Skeletal muscle relaxants (3 + 3 marks)
8. Briefly describe drug biotransformation reactions. What are the consequences of microsomal enzyme induction? (3 + 3 marks)
9. Describe the mechanism of action, uses and adverse effects of Sodium Valproate. How will you treat Methanol poisoning? (4 + 2 marks)

