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Topic Wise Question Bank For Unit-II

I. Drugs Acting on Cardiovascular System

A. Drugs Used in Therapy of Shock

10 Marks (3 questions)

- 1. Discuss the pharmacological management of hypovolemic and cardiogenic shock, including mechanism of action, indications, and adverse effects of the drugs used.
- 2. Explain the role of vasopressors and inotropes in the management of septic shock with examples.
- 3. Describe the pharmacology of dopamine and norepinephrine in shock therapy, highlighting receptor selectivity and clinical applications.

5 Marks (5 questions)

- 1. Classify drugs used in shock based on their mechanism of action.
- 2. Write a note on epinephrine in anaphylactic shock.
- 3. Discuss the adverse effects of vasopressors.
- 4. Explain the role of dobutamine in cardiogenic shock.
- 5. Briefly describe fluid therapy in hypovolemic shock.

2 Marks (10 questions)

- 1. Define shock.
- 2. Name two inotropic agents used in shock.
- 3. What is the main drug used in anaphylactic shock?
- 4. Give an example of a vasopressor.
- 5. What is the role of fluids in shock management?
- 6. Which receptor does norepinephrine act on?
- 7. Name one adverse effect of dopamine.
- 8. Give one indication for phenylephrine in shock.
- 9. Differentiate between hypovolemic and cardiogenic shock in one line.
- 10. Mention one contraindication of epinephrine.

B. Hematinics, Coagulants, and Anticoagulants

10 Marks (3 questions)

1. Discuss the pharmacology of iron and folic acid in the treatment of anemia.

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- 2. Explain the mechanism of action, indications, and monitoring of warfarin therapy.
- 3. Describe different types of anticoagulants and their pharmacological properties.

5 Marks (5 questions)

- 1. Write a note on vitamin K and its clinical significance.
- 2. Explain the mechanism of heparin and low molecular weight heparins.
- 3. List adverse effects of anticoagulants.
- 4. Describe the difference between coagulants and anticoagulants.
- 5. Mention the role of erythropoietin in anemia therapy.

2 Marks (10 questions)

- 1. Define hematinic.
- 2. Name one oral anticoagulant.
- 3. Give one parenteral anticoagulant.
- 4. Mention one adverse effect of warfarin.
- 5. Give one example of a coagulant drug.
- 6. What is the antidote for heparin?
- 7. Name a drug used to treat iron deficiency anemia.
- 8. Define anemia in one line.
- 9. Mention one function of vitamin K.
- 10. Give one example of a low molecular weight heparin.

C. Fibrinolytics and Anti-Platelet Drugs

10 Marks (3 questions)

- 1. Explain the pharmacology of fibrinolytic agents, including mechanism, therapeutic uses, and adverse effects.
- 2. Discuss antiplatelet drugs used in the prevention of myocardial infarction and stroke.
- 3. Compare and contrast the mechanisms and clinical uses of fibrinolytics versus antiplatelet drugs.

5 Marks (5 questions)

- 1. Write a note on aspirin as an antiplatelet agent.
- 2. Explain the role of clopidogrel in cardiovascular disease.
- 3. List adverse effects of fibrinolytic therapy.
- 4. Describe the use of GP IIb/IIIa inhibitors.
- 5. Explain contraindications of thrombolytic therapy.

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2 Marks (10 questions)

- 1. Define fibrinolytic drugs.
- 2. Give an example of a fibrinolytic agent.
- 3. Name an antiplatelet drug.
- 4. Mention one clinical use of aspirin.
- 5. Give one adverse effect of streptokinase.
- 6. Define antiplatelet drugs.
- 7. Give one contraindication for fibrinolytic therapy.
- 8. Name a P2Y12 inhibitor.
- 9. Mention one difference between anticoagulants and antiplatelets.
- 10. Give one example of GP IIb/IIIa inhibitor.

D. Plasma Volume Expanders

10 Marks (3 questions)

- 1. Describe the pharmacology and clinical applications of colloids and crystalloids in hypovolemic conditions.
- 2. Discuss the differences between synthetic and natural plasma volume expanders.
- 3. Explain the adverse effects and monitoring parameters for plasma expanders in shock therapy.

5 Marks (5 questions)

- 1. Write a note on albumin as a plasma expander.
- 2. Explain the role of dextran in hypovolemia.
- 3. List indications of plasma volume expanders.
- 4. Differentiate between crystalloids and colloids.
- 5. Mention adverse effects of hydroxyethyl starch.

2 Marks (10 questions)

- 1. Define plasma volume expander.
- 2. Give one example of a colloid.
- 3. Give one example of a crystalloid.
- 4. Mention one clinical use of albumin.
- 5. Name one adverse effect of dextran.
- 6. Define hypovolemia.
- 7. Give one advantage of colloids over crystalloids.
- 8. Mention one contraindication for plasma expanders.
- 9. Name a synthetic plasma expander.

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10. Define oncotic pressure in one line.

II. Drugs Acting on Urinary System

A. Diuretics

10 Marks (3 questions)

- 1. Explain the pharmacology, classification, and clinical uses of diuretics.
- 2. Discuss the mechanism of action, therapeutic uses, and adverse effects of loop diuretics.
- 3. Compare thiazide, loop, and potassium-sparing diuretics in terms of mechanism and indications.

5 Marks (5 questions)

- 1. Write a note on spironolactone as a potassium-sparing diuretic.
- 2. Explain indications of thiazide diuretics.
- 3. List adverse effects of loop diuretics.
- 4. Differentiate between osmotic and carbonic anhydrase inhibitors.
- 5. Mention monitoring parameters for diuretic therapy.

2 Marks (10 questions)

- 1. Define diuretics.
- 2. Name one loop diuretic.
- 3. Name one thiazide diuretic.
- 4. Name one potassium-sparing diuretic.
- 5. Mention one clinical use of furosemide.
- 6. Define natriuresis.
- 7. Give one adverse effect of thiazides.
- 8. Name a carbonic anhydrase inhibitor.
- 9. Mention one indication of mannitol.
- 10. Define osmotic diuretic in one line.

B. Anti-Diuretics

10 Marks (3 questions)

1. Explain the pharmacology and mechanism of action of vasopressin and its analogues.

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- 2. Discuss the clinical applications of anti-diuretics in diabetes insipidus and other disorders.
- 3. Compare vasopressin receptor agonists and antagonists, including indications and adverse effects.

5 Marks (5 questions)

- 1. Write a note on desmopressin.
- 2. Explain the mechanism of V1 and V2 receptors.
- 3. List indications of vasopressin therapy.
- 4. Mention adverse effects of anti-diuretics.
- 5. Differentiate between central and nephrogenic diabetes insipidus.

2 Marks (10 questions)

- 1. Define anti-diuretic drugs.
- 2. Name one ADH analogue.
- 3. Give one clinical use of desmopressin.
- 4. Mention one adverse effect of vasopressin.
- 5. Name a vasopressin receptor antagonist.
- 6. Define diabetes insipidus.
- 7. Give one example of V2 receptor agonist.
- 8. Mention one contraindication for vasopressin therapy.
- 9. Define aquaporins in one line.
- 10. Give one therapeutic effect of ADH on kidneys.

