

BP503T - Pharmacology-II

Time : Three Hours



Max. Marks : 75

Notes : 1. All questions are compulsory.

1x20

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- 1) Sustained use of this drug results in increased plasma urate concentrations.
 - a) Furosemide
 - b) Acetazolamide
 - c) Both of the above
 - d) Neither of the above
- 2) The drug acts only on the luminal side of renal tubules.
 - a) Furosemide
 - b) Acetazolamide
 - c) Both of the above
 - d) Neither of the above
- 3) The drug can be used to treat nephrogenic diabetes insipidus.
 - a) Hydrochlorothiazide
 - b) Amiloride
 - c) Both of the above
 - d) Neither of the above
- 4) The drug decreases calcium excretion in urine.
 - a) Hydrochlorothiazide
 - b) Amiloride
 - c) Furosemide
 - d) Acetazolamide
- 5) The drug acts by competitively blocking the $\text{Na}^+/\text{K}^+/\text{2Cl}^-$ cotransporter.
 - a) Loop diuretics
 - b) Thiazide diuretics
 - c) Potassium-sparing diuretics
 - d) Carbonic anhydrase inhibitors
- 6) The drug acts in the collecting tubules.
 - a) Loop diuretics
 - b) Thiazide diuretics
 - c) Potassium-sparing diuretics
 - d) Carbonic anhydrase inhibitors
- 7) The drug is the most potent diuretic.
 - a) Loop diuretics
 - b) Thiazide diuretics
 - c) Potassium-sparing diuretics
 - d) Carbonic anhydrase inhibitors
- 8) The drug acts by competitively blocking the NaCl cotransporter.
 - a) Loop diuretics
 - b) Thiazide diuretics
 - c) Potassium-sparing diuretics
 - d) Carbonic anhydrase inhibitors
- 9) The drug is the least potent diuretic:
 - a) Osmotic diuretics
 - b) Loop diuretics
 - c) Thiazide diuretics
 - d) Potassium-sparing diuretics

- 10) Folic acid chemically is-
 - a) PABA
 - b) Pteroyl
 - c) Pteroyl glutamate acetate
 - d) Pteroyl glutamic acid
- 11) The daily dietary requirement of Vit B12 by an adult is-
 - a) 1–3μg
 - b) 50–100μg
 - c) 0.1-0.5mg
 - d) 1-3 mg
- 12) Low doses of heparin prolog:
 - a) Bleeding time
 - b) Activated partial thromboplastin time
 - c) Prothrombin time
 - d) Both 'b' and 'c'
- 13) $t_{1/2}$ of Factor IX
 - a) 6 hrs
 - b) 60 hrs
 - c) 40 hrs
 - d) 24 hrs
- 14) Racemic form of Warfarin is
 - a) Only R enantiomer
 - b) Only S enantiomer
 - c) Both R & S enantiomer
 - d) None of above
- 15) Fibrinolytics Obtained from β haemolytic Streptococci group C
 - a) Reteplase
 - b) Streptokinase
 - c) Urokinase
 - d) Tenecteplase
- 16) Which drug does not influence leucopoiesis?
 - a) Filgrastim
 - b) Erythropoietin
 - c) Doxorubicin
 - d) Methotrexate
- 17) All of the following drugs used for iron deficiency anemia EXCEPT
 - a) Ferrous sulfate
 - b) Folic acid
 - c) Ferrous gluconate
 - d) Ferrous fumarate
- 18) Indicate the drug which increases absorption of iron from intestine
 - a) Cyanocobalamin
 - b) Folic acid
 - c) Ascorbic acid
 - d) Erythropoietin
- 19) An adverse effect of oral iron therapy is
 - a) Anemia
 - b) Thrombocytopenia
 - c) Headache
 - d) Constipation
- 20) All of the following groups of drugs are for thrombosis treatment EXCEPT
 - a) Anticoagulant drugs
 - b) Antifibrinolytic drugs
 - c) Fibrinolytic drugs
 - d) Antiplatelet drugs

- 2.** Solve the following **any two**. **2x10**
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- i) Explain the mechanism of action, therapeutics uses and adverse effects of osmotic diuretics.
 - ii) Mention different groups of drugs used in congestive cardiac failure and explain their mechanism of action.
 - iii) Discuss the pharmacological action, Pharmacokinetics, adverse effects, therapeutic uses and contraindication of Quinidine.
- 3.** Solve the following **any seven**. **7x5**
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- 1) Write briefly on
 - i) Sodium Nitroprusside
 - ii) Prazosin
 - 2) Write briefly on
 - i) α - Methyldopa
 - ii) Captopril
 - 3) Give a detail account on four drugs used in CCF
 - 4) Give a detail account on class-III Anti-arrhythmic drugs.
 - 5) Give a details account on Verapamil.
 - 6) Write a short note on Anti-Diuretics.
 - 7) What is the rationale for the use of vasodilators in congestive cardiac failure?
 - 8) Write a short on Esmolol and Sotalol.
 - 9) Give the pharmacological basis for the use of digoxin in atrial fibrillation.
 - 10) Write a short note on drugs for the treatment of gout.
