

S.No. M22448

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**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**  
**B.Sc(ALLIED HEALTH SCIENCES) &M.Sc(INTEGRATED PROGRAMS**  
**IN CARDIAC TECHNOLOGY) DEGREE EXAMINATIONS -February**  
**2020**

**Second Year**

**APPLIED PHARMACOLGY/ PHARMACOLOGY**

Three Hours

Maximum: 75 marks

**SECTION - A**

**I. Choose the Best Answer :**

**(10 x 1 = 10)**

1. What phenomenon can occur in case of using a combination of drugs?
  - a) Tolerance
  - b) Tachyphylaxis
  - c) Accumulation
  - d) Synergism
2. Indicate a cholinomimetic agent, which is related to direct-acting drugs:
  - a) Edrophonium
  - b) Physostigmine
  - c) Carbachol
  - d) Isoflurophate
3. Which of the following sympathomimetics acts indirectly?
  - a) Epinephrine
  - b) Norepinephrine
  - c) Ephedrine
  - d) Methoxamine
4. Indicate an anti-absence drug:
  - a) Valproate
  - b) Phenobarbital
  - c) Carbamazepin
  - d) Phenytoin
5. Which of the following agents is the precursor of dopamine?
  - a) Bromocriptine
  - b) Levodopa
  - c) Selegiline
  - d) Amantadine
6. Select the antiseizure drug with an analgesic component of effect:
  - a) Carbamazepine
  - b) Ethosuximide
  - c) Phenytoin
  - d) Clonazepam
7. Which of the following drugs is fiibrinolytic?
  - a) Ticlopidine
  - b) Streptokinase
  - c) Aspirin
  - d) Warfarin
8. An alpha and beta adrenoreceptors blocker:
  - a) Labetalol
  - b) Verapamil
  - c) Nifedipine
  - d) Metoprolol

(p.t.o)

- 9 The drug acts at the proximal tubule:  
a) Acetazolamide  
b) Furosemide  
c) Hydrochlorothiazide  
d) Spironolactone
10. Which of the following drugs is penicillinase resistant:  
a) Oxacillin  
b) Amoxicillin  
c) Bicillin-5  
d) Penicillin G

**II. Write Short Answers on any FIVE of the following:**

**(5 x 5 = 25)**

11. First pass mechanism.
12. Skeletal muscle relaxants.
13. Hydralazine.
14. Chlorpheniramine maleate.
15. Define mucolytic and mucokinetic agents and classify them.
16. Ondansetron.
17. Prednisolone .

**III. Write Short Essays on any TWO of the following:**

**(2 x 10 = 20)**

18. Define and classify cholinergic drugs . Write in detail about the mechanism of action pharmacokinetics , pharmacological action uses and adverse effects of acetylcholine .
19. Define bronchial asthma . Write in detail about the mechanism of action , pharmacological action , uses and adverse effects of salbutamol.
20. Classify opioids . Write in detail about the mechanism of action , pharmacological action , uses and adverse effects of morphine.
21. Define diuresis . Classify diuretic drugs . Write in detail about the mechanism of action , pharmacological action , uses and adverse effects of furosimide.

**IV. Write Essays on any ONE of the following:**

**(1 x 20 = 20)**

22. Biotransformation.
23. Classify NSAIDS . Write in detail about the mechanism of action , pharmacological action , uses and adverse effects of salicylate.

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