

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

B.OPTOMETRY DEGREE EXAMINATION – March 2019
Second Year

GENERAL PHARMACOLOGY AND OCULAR PHARMACOLOGY

Time: Three hours

Maximum: 80 marks

I. Choose the best answer:

(10 x 1 = 10)

1. Which of the following is used in the treatment of malignant hyperpyrexia?
 - a. Beta Blockers
 - b. Dantrolene
 - c. Isoniazid
 - d. Acetylcholine
2. Which causes acute angle closure glaucoma as a side effect?
 - a. Rifampicin
 - b. Streptomycin
 - c. Penicillin
 - d. Topiramate
3. Drug that can be used to treat gonococcal infection
 - a. Ceftriaxone
 - b. Gentamycin
 - c. Vancomycin
 - d. Piperacillin
4. Which of the following is used as immune modulatory drug?
 - a. Dexamethazone
 - b. Ketarolac
 - c. Prednisolone
 - d. All of the above
5. Which antibiotic imparts orange red color urine, sweat etc. secretion?
 - a. Penicillin
 - b. Gentamycin
 - c. Rifampicin
 - d. None of the above
6. Which one of the following is used as a gram negative antibiotic?
 - a. Penicillin
 - b. Lincomycin
 - c. Streptomycin
 - d. Vancomycin
7. Drugs that can be used in both leprosy and tuberculosis
 - a. Ethambutol
 - b. Rifampicin
 - c. Dapsone
 - d. INH
8. Which of the following is used as mydriatic?
 - a. Acetylcholine
 - b. Atropine
 - c. Physostigmine
 - d. Pilocarpine
9. Which of the following is not the side effect of opioids?
 - a. Drug dependence
 - b. Diuresis
 - c. Dysphoria
 - d. Delirium
10. Which of the following is used as oral anti diabetic drug?
 - a. Glibenclamide
 - b. Metformin
 - c. Tolbutamide
 - d. All of the above

II. State whether the following statements are TRUE or FALSE. (10 x 1 = 10)

1. Heparin is released from mast cells during anaphylactic shock.
2. Gentamycin is effective against pneumococci.
3. Steroid can be applied as peri ocular injections.
4. Acyclovir is used in herpetic keratitis.
5. Physostigmine is used in lice infestation of lashes.
6. Atropine's mydriatic effect is long lasting in albino rabbits than non albino rabbits.
7. Corneal hyposthesia is the side effect of α -adrenergic blockers.
8. Heparin is used as an anti coagulant.
9. Vitamin E causes no side effects in anterior segment.
10. Adrenaline is degraded by cholinesterase.

III. Fill in the blanks: (10 x 1 = 10)

1. _____ are used to stop bleeding from local sites.
2. _____ is used to treat conjunctivitis.
3. _____ is used to treat acute and chronic osteomyelitis.
4. _____ releases free fatty acid as produced by adrenaline.
5. _____ is used for sterilization of the bowel.
6. _____ is used in treating TB.
7. _____ is a carbonic anhydrase inhibitor.
8. _____ is used in chronic open angle glaucoma.
9. _____ is a competitive antagonist of angiotensin II.
10. _____ is used in fluorescence photometry in neovascularisation.

IV. Write any FIVE answers of the following: (5 x 6 = 30)

1. Classify skeletal muscle relaxants.
2. Factors modifying bio transformation.
3. Classify coagulants.
4. Mechanism of action of antiviral agents.
5. Pharmacological actions of oral hypoglycemic agents.
6. Miotics.
7. Mechanism of action of NSAIDs.

V. Write any TWO essays of the following: (2 x 10 = 20)

1. Define and classify sedatives and hypnotics. Explain in detail about barbiturates.
2. Ocular routes of drug administration.
3. Give the stages of general anaesthesia.

(Sl.No. M21196)