

MCT 7011

Second Year MBBS Examination

II MBBS Pharmacology Paper 1 (New)

Time: 3 hours

Max Marks: 100

Date: 04-01-2023

- Instructions:*
1. Answer to the points.
 2. Figure to the right indicates marks.
 3. Use separate answer books for each section.
 4. Draw diagrams wherever necessary.
 5. Write legibly.

Section 1

1. Structured long question: (any 1 out of 2) (10)
 - a. Mention all the routes of drug administration. Write in details about parenteral routes of drug administration.
 - b. Classify antidepressant drugs. Write in details about pharmacological actions and adverse effects of Tricyclic Antidepressants (TCAS).
 2. Case based scenario / Applied short notes: (any 2 out of 3) (12)
 3. Write short notes: (any 3 out of 4) (18)
-

- a. Write differentiating features between competitive and non-competitive neuromuscular blocking agents.
 - b. Mechanism of action and adverse effects of phenytoin.
 - c. Fundamental principles of bioethics.
 - d. Uses and techniques of local anaesthesia.
4. Answer only in 2-8 sentences: (any 5 out of 6) (10)
- a. Define plasma half-life. Write status of half-life in first and zero order kinetics.
 - b. Mention any four non cardiac uses of beta blockers.
 - c. Write any four examples of atypical antipsychotics,
 - d. Enlist any four uses of centrally acting muscle relaxants
 - e. Write any four contraindications of adrenalin
 - f. Name all the phases of clinical trial.

Section 2

1. Structured long question: (any 1 out of 2) (10)
 - a. Mention drugs used in treatment of heart failure. Write in details about mechanism of action of adverse effects of digoxin.
 - b. Classify diuretics. Write in details about uses and complications of high ceiling and thiazide type of diuretics
2. Case based scenario / Applied short notes: (any 2 out of 3) (12)
 - a. 55 years old male patient presented with complain of chest pain while doing exercise and not at rest since 15 days. On further detailing he revealed that he is chronic smoker. (a) Give your provisional diagnosis. (b) Name the drugs which can be used to treat this clinical condition? (c) Justify combinations of drugs used in this clinical condition.
 - b. 25 years old female reported complain of headache since last one week. Headache was unilateral and pulsatile in nature. Further she told that it usually last up to 6 hours in a day and it is first time she has experienced such headache. (a) Give your provisional diagnosis. (b) What treatment and precautions you will advise to this patient ?

(c) Name all the drug which can be used to

treat and prevent this clinical condition.

- c. Write in details about choice of Nonsteroidal Anti-inflammatory Drugs (NSAIDs) used in specific clinical condition.
3. Write short notes: (any 3 out of 4) (18)
 - a. Low Molecular Weight (LMW) heparins.
 - b. Mechanism of action, uses and adverse effects of statins.
 - c. Therapeutic uses and adverse effects of aspirin.
 - d. Allopurinol.
4. Answer only in 2-3 sentences: (any 5 out of 6) (10)
 - a. Name any four biological agents used in rheumatoid arthritis.
 - b. Mention any two advantages of second generation antihistaminics over first generation.
 - c. Explain the pharmacological basis of combination therapy of folic acid and vitamin B12 in megaloblastic anaemia.
 - d. Write any two indications of using parenteral iron therapy.
 - e. Give any two examples of drug combinations to be avoided in hypertension.
 - f. Mention any two uses of fibrinolytics.
