

**Roll No.**

**Total No. of Pages : 02**

**Total No. of Questions : 11**

**M.Sc. (Medical Technology-Anaesthesia & Operation Theatre) (Sem.-3)**

## APPLIED PHARMACOLOGY FOR ANESTHESIA

**Subject Code : MAOTT304-21**

**M.Code : 92666**

**Date of Examination : 19-12-22**

**Time : 3 Hrs.**

**Max. Marks : 70**

**INSTRUCTIONS TO CANDIDATES :**

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **EIGHT** questions carrying **FIVE** marks each and students have to attempt any **SIX** questions.
3. **SECTION-C** will comprise of two compulsory questions with internal choice in both these questions. Each question carries **TEN** marks.

## SECTION-A

1.
  - a) Name two diuretics and their adverse effects.
  - b) Techniques of Inhalation of anaesthetics.
  - c) Write down the uses of tremadol.
  - d) Emergency use of Intramuscular (IM) adrenaline.
  - e) Toxicity of Atropine.
  - f) Write down the disadvantages of using ketamine.
  - g) Give the mechanism of action of desflurane.
  - h) Write down the examples of calcium channel blockers.
  - i) Give the mechanism of action of nitroglycerin.
  - j) Mention the therapeutic uses of ephedrine.

## SECTION-B

2. Write a note on Antisialagogues.
3. Classify muscle relaxants and write in detail about atracurium.
4. Give mechanism of action, route, dosage and adverse effects of Amidaron.
5. Discuss in brief about the pharmacology of Morphine.
6. Write a note on the following:
  - a) Neostigmine
  - b) Ondansetron.
7. Give the mode of administration, dosage and effects of hydrocortisone.
8. Classify  $\beta$ -blockers. Give their mechanism of action and specify their uses in hypertension.
9. Write about classification and mechanism of bronchodilators. Add note on theophylline.

## SECTION-C

10. Explain the mechanism of action of local anesthetics. Discuss the preparation and therapeutic uses of Xylocaine and Bupivacaine.

**OR**

Classify anti-arrhythmic drugs with suitable examples. Explain mode of administration, dilution and dosage of xylocard.

11. Discuss the mode of administration, dilution, dosage, effects, uses and side effects of Adrenaline.

**OR**

Classify sedatives and hypnotics. Explain the mechanism of action, uses and side effects of Diazepam.

**NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.**