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CS/B.OPTM/SEM-3/BO-304/2011-12 2011

PHARMACOLOGY (GENERAL & OCULAR)

Time Allotted: 3 Hours Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

GROUP – A (Multiple Choice Type Questions)

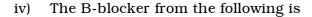
1. Choose the correct alternatives for the following:

 $10 \times 1 = 10$

- i) Which is not an inhalational anaesthetic?
 a) Nitrous oxide
 b) Ketamine
 c) Chloroform
 d) Ether.
 ii) All are viscoelastic substances except
 - a) Indocyanine b) Na-hyaluronate
 - c) Collagen d) Chondroitin sulphate.
 - iii) All are topical antibiotic eye drops except
 - a) Tobramycin b) Fluoromethalone
 - c) Moxifloxacin d) Ofloxacin.

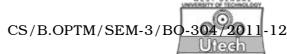
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- a) Pilocarpine
- b) Timolol
- c) Clonidine
- d) Morphine.
- v) All are anti-glaucoma drugs except
 - a) Acetazolamide
- b) Bimatoprost
- c) Brimonidine
- d) Lignocaine.
- vi) Which is not a steroid of the following drugs?
 - a) Prednisolone
- b) Betamethasone
- c) Hydrocortisone
- d) Flurbiprofen.
- vii) Which of the following is *not* an indication for using viscoelastic substances?
 - a) Facilitate safe and easy 10L fixation
 - b) Protect corneal endothelium
 - c) Reduce corneal inflamation
 - d) In gonioscopic examination.
- viii) Atropine is an example of
 - a) parasympatholytic mydriatic
 - b) sympathomimetic mydriatic
 - c) sympatholytic drug
 - d) none of these.

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- ix) Application of pharmacological information together with knowledge of its prevention, mitigation or cure is known as
 - a) chemotherapy
 - b) Pharmacy
 - c) Clinical pharmacology
 - d) Pharmacotherapeutics.
- x) Pharmacokinetics explores
 - a) what the body does to the drug
 - b) what a drug does to the body
 - c) both (a) and (b)
 - d) none of these.

GROUP - B

(Short Answer Type Questions)

Write short notes on any three of the following.

 $3 \times 5 = 15$

- 2. Factors influencing drug metabolism.
- 3. Opioid analgesics.
- 4. Acute drug poisoing and its management.
- Complications and side effects of prolonged use of steroid eye drops.

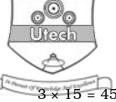
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(Long Answer Type Questions)

Answer any three of the following.



- 6. Discuss the various classes of drugs that can act on the autonomic nervous system. Discuss their uses and effects.
- 7. a) What happens to a drug after it is administered systematically? How is it removed from the body?
 - b) Discuss drug toxicity.

10 + 5

- 8. a) What are Hypnotics ? Give examples. Explain the mechanism of action of any one such drug.
 - b) How are such drugs excreted from the body?
 - c) What will be the effects of overdose toxicity of such a drug? 5+5+5
- 9. a) Classify analgesic-antipyretic drugs, giving examples of each class.
 - b) Discuss the mechanism of action and side effects of any one such drug. 7 + 8

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