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Invigilator's Signature : .....

## CS/B.Pharm(O)/SEM-7/PT-708/2012-13 2012 PHARMACOLOGY

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 of the following :  $10 \times 1 = 10$ 
  - i) Chemotherapeutic agents are
    - a) synthetic b) semi-synthetic
    - c) of natural origin d) none of these.
  - ii) Acyclovir is an
    - a) anti-viral drug b) anti-bacterial drug
    - c) anti-fungal drug d) none of these.
  - iii) Antidiarrheal drug racecadotril is inhibitor of
    - a) cholinesterase b) enkephalinase
    - c) protease d) gasrtrin.

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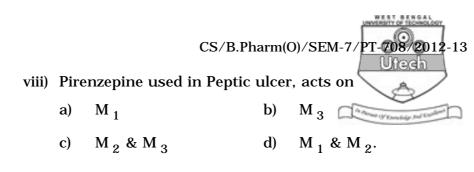
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iv) Radioactive lodine



- a) is taken up by pituitary disorder
- b) is administered by parenteral route
- c) emits  $\beta$  radiation which destroy thyroid cell
- d) can be given to all patients regardless of their age.
- v) Antiviral activity of Zidovudine is due to
  - a) inhibition of viral RNA polymerase
  - b) inhibition of viral RNA topoisomerase II
  - c) inhibition of RNA dependent DNA polymerase
  - d) inhibition of viral transpeptidase.
- vi) Vincristin and Vinblastin act by
  - a) binding with protein tubulin and arrest the metaphase
  - b) inhibiting the protein synthesis
  - c) as an alkylating agent
  - d) as an antimetabolite.
- vii) In primary hyperaldosteronism muscle weakness results from
  - a) muscle wasting b) hypokalemia
  - c) hypercalcemia d) all of these.

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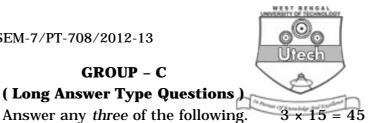
ix) In the treatment of postpartum haemorrhage, the best choice is

- a) PGF  $_{2\alpha}$  b) 15-methyl PGF  $_{2\alpha}$
- c) Ethacridine d) Methyl ergometrine.
- x) Acabarose is used in
  - a) thyroid dysfunction b) NIDDM
  - c) renal failure d) Cushing's syndrome.

## GROUP – B ( Short Answer Type Questions )

Answer any *three* of the following.  $3 \times 5 = 15$ 

- 2. Define the terms antibiotic and chemotherapeutic agents. Classify antibiotics.
- 3. What are drug resistances ? Explain why the development of resistance of anti-bacterial drugs are easier than that of anit-fungal drugs ?
- 4. Write a short note on acyclovir.
- 5. What are Carbapenems ?
- 6. Write a short note on RNA polymerase inhibitors.
- 7. What is Drug resistance. What are transposons ? 4 + 1
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- 8. What are meant by aminoglycosides and broad spectrum antibiotics ? Describe the mode of action of aminoglycosides. Write its indication and adverse effects.
- What do you mean by oral hypoglycemic agents ? Classify 9. them. Write mode of action, indications, side effects and contraindication of biguanides.
- 10. What is chemotherapy? Write about the principal molecular approach of mechanism of action of antimicrobial agents. Write different types of penicillins with their advantage and disadvantage. What is suicidal inhibitor? 1 + 6 + 7 + 1
- 11. Write about the biosynthesis of corticosteroids. What are the pharmacological actions of corticosteroids ? What is the cellular mechanism of corticosteroids ? 4 + 7 + 4

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