



Name : .....

Roll No. : .....

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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[ Turn over



- iv) Radioactive Iodine
- 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.





**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following.  $3 \times 15 = 45$

8. What are meant by aminoglycosides and broad spectrum antibiotics ? Describe the mode of action of aminoglycosides. Write its indication and adverse effects.
9. What do you mean by oral hypoglycemic agents ? Classify 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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