	Utech
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Invigilator's Signature :	

# CS/B.PHARM(OLD)/SEP.SUPPLE/SEM-7/PT-708/2012 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 )

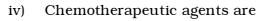
 $1. \quad \hbox{Choose the correct alternatives for any $\it ten$ of the following:}$ 

 $10\times1=10$ 

- i) Aminoglycosides inhibits
  - a) protein synthesis
- b) DNA function
- c) cell wall synthesis
- d) none of these.
- ii) An antidote of morphine is
  - a) pyridoxine
- b) methylene blue
- c) naloxone
- d) none of these.
- iii) Therapeutic index =
  - a) ED 50 / LD 50
- b) LD 50 / ED 50
- c) TD 50 / LD 50
- d) LD 50 / TD 50.

SS-358 [ Turn over

# CS/B.PHARM(OLD)/SEP.SUPPLE/SEM-7/PT-708/2012



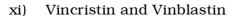
- a) synthetic
- b) semisynthetic
- c) of natural origin
- d) none of these.
- v) Acyclovir is an
  - a) anti-viral drug
- b) anti-bacterial drug
- c) anti-fungal drug
- d) none of these.
- vi) Selective toxicity is a property of
  - a) microorganisms
- b) antibiotics
- c) host cells
- d) none of these.
- vii) Gastrin is a/an
  - a) hormone
- b) enzyme
- c) neurotransmitter
- d) none of these.
- viii) Antidiarrhoeal drug Racecadotril is inhibitor of
  - a) cholinesterase
- b) enkephalinase
- c) protease
- d) gasrtrin.
- ix) 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.
- x) 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

2

d) inhibition of viral transpeptidase.

SS-358

# CS/B.PHARM(OLD)/SEP.SUPPLE/SEM-7/



- a) act by binding with protein tubulin and arrest the metaphase
- b) act by inhibiting the protein synthesis
- c) act as an alkylating agent
- d) act as an antimetabolite.
- xii) Cytoprotective agent Misoprostol is an analogue of
  - a) prostaglandin
- b) histamine
- c) acetylcholine
- d) cytokine.

#### **GROUP - B**

# (Short Answer Type Questions)

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

- 2. Classify the drugs used to inhibit the gastric acid secretion with proper example. Write about the mechanism of cytoprotective agent used to protect the gastric mucosa.
- 3. What is heavy metal antagonist? Write about the different heavy metal.
- 4. Define the terms 'antibiotic' and 'chemotherapeutic' agents.

  Classify antibiotics.

SS-358 3 [Turn over

# CS/B.PHARM(OLD)/SEP.SUPPLE/SEM-7/PT-708/2012



- 5. What is drug resistance? Explain why the development of resistance of anti-bacterial drugs are easier than that of anit-fungal drugs?
- 6. Write short notes on acyclovir.

#### **GROUP - C**

#### (Long Answer Type Questions)

Answer any three questions.

 $3 \times 15 = 45$ 

- 7. Write about the biosynthesis of corticosteroids. What are the pharmacological actions of corticosteroids? What is the cellular mechanism of corticosteroids? 4 + 7 + 4
- 8. What is beta lactum antibiotics? Write down the mechanism of action of beta lactum antibiotics. Write mechanism of action, adverse effects and uses of cotrimoxazole.
- 9. 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
- 10. What are meant by aminoglycosides and broad spectrum antibiotics? Describe the mode of action of aminoglycosides. Write its indication and adverse effects.
- 11. What do you mean by oral hypoglycemic agents? Classify them. Write mode of action, indications, side effects and contraindication of biguanides.

SS-358