	Utech
Name:	
Roll No.:	To Descript Complete and Excellent
Invigilator's Signature :	

# CS/B.PHARM(N)/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 for any <i>ten</i> of the following :
	$10 \times 1 = 10$

- i) The drug of choice for GERD is
  - a) Ravitidine b) Sucralfate
  - c) Clarithromycin d) Pantoprazole.
- ii) Gastrin is
  - a) Enzyme b) Neuro trans mitter
  - c) Hormone d) Vitamin.
- iii) The antidote for atropine poisoning is
  - a) Methylene blue b) Naloxone
  - c) Dimercaprol d) Physostigmine.

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- iv) Prednisolone is used as
  - a) Antipyretic drug
  - b) Anti inflammatory drug
  - c) Anti ulcer drug
  - d) Anti hypertensive drug.
- v) Short acting insulin has duration of action of
  - a) 3-6 hours
- b) 12-24 hours
- c) 6-8 hours
- d) none of these.
- vi) Mifepristone can be used in
  - a) Induction of Labor
  - b) Threatened or habitual contraception
  - c) Pre-menstrual tension
  - d) Endometrial carcinoma.
- vii) Which of the following drugs inhibit DNA gyrase
  - a) Ciprofloxacin
- b) Acyclovir
- c) Rifampin
- d) Cyclosporine.
- viii) Which of the following is a narrow spectrum antibiotic
  - a) Tetracyclines
- b) Streptomycin
- c) Chloramphenicol
- d) Amantadine.
- ix) Which of the following contraceptive pill does not contain estrogen?
  - a) Combined pill
- b) Phased pill
- c) Mini pill
- d) All of these.

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- x) Which cells of the Islets of Langerhans secrete insulin?
  - a)  $\alpha$  cells

b) β cells

c) D cells

- d) None of these.
- xi) Which of the following is a cell cycle non-specific anticancer drug?
  - a) Cyclophosphamide
- b) Vincristine
- c) Etoposide
- d) Paclitaxel.
- xii) Glucocerticoid synthesis is under direct control of
  - a) Hypothalamus
- b) Pituitary (posterir)
- c) Adrenal medulla
- d) ACTH.

#### **GROUP - B**

# (Short Answer Type Questions)

Answer any three of the following.

 $3 \times 5 = 15$ 

- 2. Write down the mechanism of action of zidovudin against HIV.
- 3. What is drug resistance? Explain the reson why drug resistance occurs in tuberculosis.  $2\frac{1}{2} + 2\frac{1}{2}$
- 4. What do you mean by laxative and purgative agents ? Explain the mode of action of lactulose as a laxative.  $2\frac{1}{2} + 2\frac{1}{2}$
- 5. Write a note on insulin resistance.
- 6. Write down the pharmacology of Vinca Alkaloids.

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### (Long Answer Type Questions)

Answer any three of the following.



- 7. a) What is cancer?
  - b) What are the causes of cancer?
  - c) Differentiate between benign and malignant tumors.
  - d) Write down the MOA, clinical use and side effects of methotrexate. 1 + 3 + 3 + 8
- 8. a) Write down the physiology of gastric acid secretion.
  - b) Classify anti-ulcer drugs.
  - c) Write down the pharmacology of any prototype drug of the proton-pump inhibitor group. 5 + 2 + 8
- 9. a) Discuss the mode of action of sulphonamide as antibacterial agent.
  - b) Write down the mechanism of action, clinical uses and adverse effects of glucocerticoids.
  - c) What is OCP?

5 + 8 + 2

- 10. a) What is the mechanism of action and adverse effects of penicillin?
  - b) Write briefly about bacterial resistance against penicilin G.
  - c) Give examples of two extended spectrum penicillins.

8 + 5 + 2

11. Write short notes on any *three* of the following :

 $3 \times 5$ 

- a) Synthesis of thyroid hormones
- b) Oral contraceptives
- c) Gonadotrophins
- d) Different phases of cell cycle kinetics.

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