

Name :

Roll No. :

Invigilator's Signature :

**CS/M.PHARM/SEM-2/MPT-208(1)/2013
2013**

CLINICAL 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)

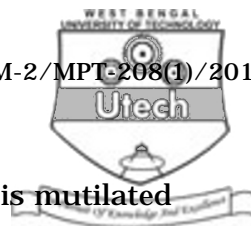
1. Choose the correct alternatives for any *ten* of the following :

10 × 1 = 10

- i) Therapeutic Drug Monitoring (TDM) is necessary for sigoxin because
- a) it is used for therapeutic purpose
 - b) it has low therapeutic index
 - c) it is used for prophylactic purpose
 - d) all of these.
- ii) Rabeprazole is a
- a) brand name
 - b) non-proprietary name
 - c) chemical name
 - d) IUPAC name.



- iii) Individuals with glomerular filtration rates (GFRs) less than $60 \text{ ml/min/1.73 m}^2$ for more than 3 months have
- a) CKD
 - b) enuresis
 - c) saluresis
 - d) peritonitis.
- iv) Chinese people are considerably more sensitive than Americans to the effects of
- a) Calcium channel blocker
 - b) Beta blocker
 - c) Diuretics
 - d) ACE inhibitors.
- v) A research technique where both the observer and the patients are unaware of the administration is a
- a) non-blind trial
 - b) double blind trial
 - c) triple blind trial
 - d) open label trial.
- vi) Which of the following describes a meta analysis ?
- a) Analyse very large studies
 - b) Analysis of the methods of statistical analysis
 - c) Establish external validity
 - d) Detect trends across studies that may have used different procedures, number of participants, types of control procedure and different forms of measurement.
- vii) Important and predisposing factors for adverse drug reaction are all the following *except*
- a) multiple drug therapy
 - b) wrong diagnosis
 - c) age
 - d) intercurrent disease.
- viii) What will be the number of human healthy volunteers in phase III clinical trial ?
- a) 20 – 50
 - b) 30 – 200
 - c) 50 – 300
 - d) 50 – 1000.



- ix) 'Off label' use of a drug means
- a) use of a formulation whose label is mutilated
 - b) use of a formulation whose label is misprinted
 - c) use for an indication that has not included in licence
 - d) all of these.
- x) Renal clearance rate in case of a geriatric patient is
- a) low
 - b) high
 - c) moderate
 - d) unpredictable.
- xi) In slow acetylators, Isoniazid has
- a) short $t^{1/2}$
 - b) long $t^{1/2}$
 - c) reduced toxicity
 - d) none of these.
- xii) Standard tests involved in anti-coagulant therapy are
- a) prothrombin time
 - b) international normalized ratio
 - c) activated partial thromboplastion time
 - d) all of these.

GROUP - B

(Short Answer Type Questions)

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

2. What symptoms are to be reported immediately during warfarin therapy ?
3. Discuss about pharmacist intervention in case of a patient being treated for hepatic impairment.
4. Write a note on role of gender in differences in drug response.



5. Write briefly about the advantages and disadvantages of using non-proprietary names of drugs.
6. Write a note on drug-food interaction.

GROUP - C

(Long Answer Type Questions)

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

7. What do you mean by Therapeutic Drug Monitoring ? Identify few situations where TDM needs to be conducted. What are the factors that affect serum drug concentration in TDM ? $3 + 6 + 6$
8. Write the name of the cell cycle specific drugs used in cancer. How do you overcome the toxicities of anticancer drugs ? Write about the MOPP therapy used in Hodgkin's disease. $7 + 4 + 4$
9. What are the objectives of patient counselling ? What are the steps of patient counselling ? What is the importance of communication skill in patient counselling ? $2 + 10 + 3$
10. Discuss in details about the ADR monitoring, management and reporting of drug interactions and adverse drug reactions.
11. Write short notes on the following : $2 \times 7 \frac{1}{2}$
 - i) Rational Drug Therapy
 - ii) Patient Compliance.