



KT-1820

Seat No. _____

M. Sc. (Sem. IV) Examination

April / May - 2013

CHN - 703 (O) : Chemistry : Paper - III
(Organic Chemistry)

Time : 3 Hours]

[Total Marks : 70

- Instructions :**
- (1) All questions are compulsory.
 - (2) Digits to the right indicate full marks of the question.
 - (3) Start a new question from a new page.

1 (a) Answer any three of the following questions : 9

- (1) What is the cause of malaria ? Classify antimalarials ?
- (2) What kind of drugs are amphotericin B and griseofulvin ? Draw their structures.
- (3) Write synthesis of any one antiviral drug.
- (4) Write synthesis of metronidazole and explain its action.

(b) Answer any one of the following questions : 5

- (1) Write a note on antitubercular drugs.
- (2) Explain life cycle of malaria.

- 2 (a) Attempt any **three** questions from the following : 9
- (1) What is the trade name of 3-(3,4-Dihydroxyphenyl) alanine ? What is its use ? How does it act ?
 - (2) Draw structures of drugs which act as antipsychotics.
 - (3) Write synthesis of any one drug which acts as a sedative.
 - (4) What are antianxiety drugs ?
- (b) Attempt any **one** question from the following : 5
- (1) Write a note on antidepressants.
 - (2) Explain the significance of barbiturates with synthesis of any one such drug.
- 3 Answer any **two** of the following questions : 14
- (1) Which drugs act on Renal systems ? Explain mode of action of such drugs.
 - (2) What are diuretics ? Synthesize any two such drugs.
 - (3) Write a note on cardiac drugs.
- 4 Attempt any **two** questions from the following : 14
- (1) Define and classify cancer. Write a note on Nitrogen mustards.
 - (2) What are antihypertensive drugs ? Give an idea of β -adrenergic blockers. Draw structure of atenolol.
 - (3) Explain the significance of antimetabolites as anticancer drugs.

5 Answer any **seven** of the following questions briefly : 14

- (1) What are the limitations of cancer therapy ?
 - (2) Draw structures of mannitol and glycerine.
 - (3) Draw structures of any two gaseous general anaesthetics.
 - (4) Explain virus life cycle.
 - (5) Write full forms of AIDS and HIV.
 - (6) Write synthesis of any one antileprotic drug.
 - (7) What are the threats of hypertension ?
 - (8) Classify antipsychotics.
 - (9) What are calcium channel blockers ?
 - (10) Write full form of CNS. Write names of two types of such drugs.
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