



AAK-4516

Seat No. _____

M. Sc. (Sem. IV) Examination

April / May - 2018

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

Time : 3 Hours]

[Total Marks : 70

Instruction : All questions carry equal marks.

1 (a) Answer any two of the following questions. 8

(1) Give the synthesis and physiological activity of pentaquine and Mepacrine.

(2) What are antifungal agents ? Which antibiotics are used as antifungal agents ? Give their names.

(3) Give an account of Antileprotic drugs.

(b) Answer any one of the following questions. 6

(1) Write a note on Antitubercular drugs.

(2) Give the classification of Antiviral drugs and synthesis of any one Antiviral drug.

2 (a) Answer any two of the following : 8

(1) Explain Hollycinogenic drugs.

(2) Write a note on Antianxiety drugs.

(3) What are the sedative and hypnotics ? Explain the relationship between their chemical structure and sleep promoting activities.

(b) Answer any **one** of the following : 6

(1) Differentiate general and local anaesthetics. Discuss the mechanism of general anaesthetics. Give the characteristics of an ideal anaesthetic agents.

(2) What is Tranquillisers ? Classify the Antipsychotics drugs. Give the synthesis of Impiramine.

3 Answer any **two** of the following questions : 14

(1) Explain β -Adrenergic blocking agents and cardiovascular diseases. Give synthesis of any two cardiac drugs.

(2) Give the classification of Diuretics and synthesis of chlorothiazide and Furosemide.

(3) Name the different drugs acting on Renal system with their mode of action.

4 Answer any **two** of the following : 14

(1) Write and explain any ten classes of Anticancer drugs. Give synthesis and physiological activities of any two drugs from each class.

(2) Short note : Antidiabetic drugs.

(3) What happens when hypertension is not treated properly ? Synthesize captopril.

5 Answer any **seven** of the following :

14

- (1) Give classification of Antiamoebic drugs.
 - (2) What are psychopharmacological agents ?
 - (3) Give the structure of Ethambutol.
 - (4) Classify the anticonvulsant drugs.
 - (5) Write the symptoms of parkinsonism.
 - (6) To identify the neurotransmitters of CNS.
 - (7) Give synthesis of Paludrine.
 - (8) Explain life cycle of virus.
 - (9) Give classification of anti-arrythimic agent.
 - (10) Give the structure of potassium sparing diuretics.
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