



PZ-855

Seat No. _____

M. Sc. (Sem. IV) Examination

April / May - 2016

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

Time : 3 Hours]

[Total Marks : 70

- 1 (a) Write any two : 8
- (1) Explain the cycle of malarial parasite. Classify the antimalarial drugs on the basis of chemotherapy.
 - (2) Give account for some antibiotics which are very useful as antifungal agents.
 - (3) Write a note on antiamebic drugs.
- (b) Write any one : 6
- (1) Give the synthesis and physiological activity of chloroquine and chemoquine.
 - (2) Write a note on antileprotic drugs.
- 2 (a) Write any two : 8
- (1) What are the sedative and hypnotics ? Give account on barbiturates.
 - (2) Give an account on antidepressant drugs.
 - (3) What is general anaesthetics ? Give details about non-volatile general anaesthetics.

(b) Write any one :

6

(1) Write type of drugs for (i) Meprobamate and (ii) chlordiazepoxide. Give synthesis of both.

(2) Write a note on anticonvulsants.

3 Write any two :

14

(1) Classify cardiovascular drugs. Give account on anti-arrhythmic drugs. Write synthesis of quinidine.

(2) Give classification of diuretics. Give at least one drug from each class with their name and structure.

(3) Give synthesis of (i) Acetazolamide (ii) Furosemide (iii) Ethacrynic acid.

4 Write any two :

14

(1) What is diabetics ? Classify oral antidiabetic agents. Give synthesis of (i) Tolbutamide, (ii) Glyburide, (iii) Phenformin.

(2) Define hypertension. Which type of alkaloids are used in the treatment of hypertension. Give synthesis of (i) Clonidine, (ii) Methyl dopa (iii) Diazoxide.

(3) What is cancer ? Discuss the cancer causing agents. Explain cancer chemotherapy.

- (1) Which is the natural source of quinine ?
 - (2) What is full form of INH ? Write the class of drug for it.
 - (3) Write a name and structure of drug, which is useful in amoebic dysentery.
 - (4) Define hallucinogenic agents.
 - (5) What is cardiotoxic drugs ? Which type of compounds generally uses as cardiotoxic drugs ?
 - (6) Write name of anti-tubercular drugs from each of the following classes :
 - (i) Diamines
 - (ii) Thioamide
 - (7) Write the symptoms of Parkinsonism.
 - (8) Give two names of β -Adrenergic blocking agents.
 - (9) Write the different symptoms of diabetic patient.
 - (10) What are characteristics for an ideal antihypertensive drugs ?
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