

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary End Semester Examination – Summer 2022

Course: B. Pharmacy

Sem: V

Subject Name: Medicinal Chemistry -II

Subject Code: BP501T

Max Marks: 75

Date: 13/07/2022

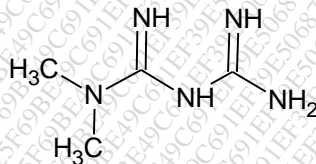
Duration: 3.45 Hr.

Instructions –

1. All questions are compulsory
2. Answers to MCQs should be written in full sentences
3. Draw diagrams / figures wherever necessary
4. Figures to right indicate full marks

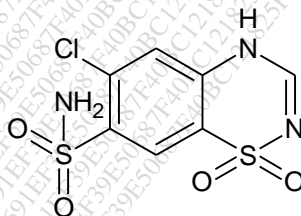
Q. 1. Multiple Choice Questions (MCQs) = 20 x 1 = 20 (All the questions are compulsory)

i) Identify the structure



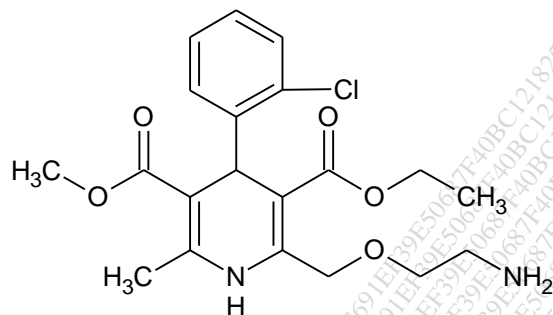
- a) Acarbose b) Metformin c) Glipizide d) Nateglinide.

ii) Identify the structure



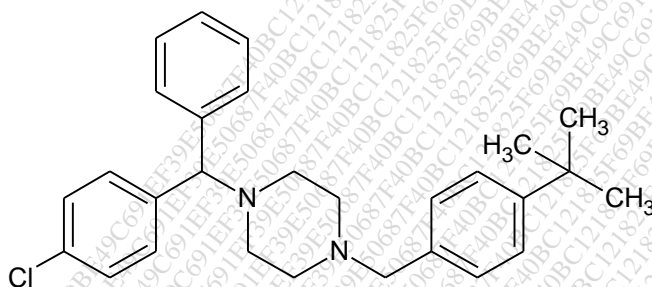
- a) Triamterene b) Chlorthiazide c) Bumetanide, d) Spironolactone,.

iii) Identify the structure



- a) Nifedipine b) Felodipine c) Amlodipine d) Nicardipine

iv) Identify the structure



- a) Meclizine b) Buclizine c) Chlorpheniramine d) Triprolidine

v) Which of the following is NOT example of Anti-arrhythmic drug

- a) Phenytoin sodium, b) Lidocaine
c) Menadione, d) Mexiletine

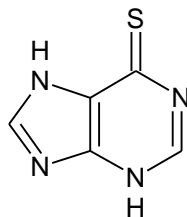
vi) Which of the following anticancer agent oxidatively damage the cell DNA by binding to metal ion like iron

- a) Bleomycin b) Cisplatin,
c) Mitotane, d) Fluorouracil,

vii) Following is an example of H1 antagonist

- a) Cimetidine b) Famotidine
c) Ranitidin, d) Chlorpheniramine

viii) Predict the following structure



- a) Floxuridine b) Thioguanine
c) Mercaptopurine d) Fluorouracil

ix) Following drug competitively inhibits aldosterone dependant sodium potassium exchange channels in the distal convoluted tubule

- a) Spironolactone
- b) Furosemide
- c) Mannitol
- d) Bumetanide,

x) Testosterone is

- a) 17 β -Hydroxyandrost-4-en-3-on
- b) 17,21-Dihydroxypregn-4-ene-3,20-dione
- c) 3 α -Hydroxy-5 α -androstan-17-one
- d) 17, hydroxypregn-4-ene-3,13-dione,

xi) Stomach discomfort, gas, bloating are the side effects of

- a) Pioglitazone
- b) Rosiglitazone
- c) Acarbose
- d) Chlorpropamide

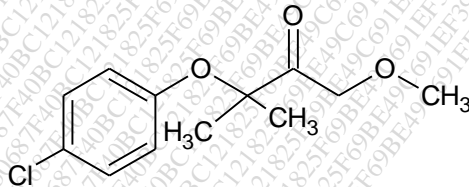
xii) Which of the following is NOT oral contraceptive agent

- a) Mifepristone
- b) Norgestril
- c) Levonorgestrol
- d) Prednisolone

xiii) The following sulphonamide used in the treatment of diabetes

- a) Acarbose
- b) Tolbutamide
- c) Nateglinide.
- d) All of above

xiv) Identify the structure



- a) Clofibrate
- b) Lovastatin
- c) Cholesteramine.
- d) Cholestipol

xv) Use of cimetidine is

- a) Gastroesophageal reflux disease (GERD)
- b) Bloating
- c) Allergy
- d) Sneezing

xvi) find out the antimetabolite shares structural similarity with folic acid

- a) Mercaptopurine
- b) Thioguanine,
- c) Fluorouracil,
- d) Methotrexate

xvii) Which of following is NOT prodrug

- a) Lisinopril
- b) Clofibrilde
- c) Cortisone
- d) Azathioprine

xviii) Onset of action of nitroglycerin is

- a) 05- 06 mints
- b) 01-03 mints
- c) 05-10 mints
- d) None of these

xix) which of the following local anesthetic agents belongs to ester group

- a) Procain
- b) Lignocain
- c) Mepivacaine
- d) Bupivacain

xx) The cisplatin can be used as

- a) Alkylating antineoplastic agent
- b) Antimetabolite antineoplastic agent
- c) Antibiotic antineoplastic agent
- d) Cytotoxic antineoplastic agent

Q. 2. Long Answers) = 2 x 10 = 20 (Answer 2 out of 3)

- i) Define diuretics, give classification of diuretic with examples and explain mechanism of action and synthesis of Furosemide.
- ii) Compare action mechanism of H1 antagonist and H2 antagonist explain advantages of H2 antagonist over H1 antagonist
- iii) Classify antidabetic agent with example, explain mechanism of action of Repaglinide and give synthesis of Tolbutamide

Q. 3. Short Answers = 7 x 5 = 35 (Answer 7 out of 9)

- i) Write a note on drugs for erectile dysfunction
- ii) Explain Stereochemistry of testosterone
- iii) Give synthesis of Promethazine hydrochloride
- iv) Write synthesis of Warfarin
- v) Write a note on SAR of Local anaesthetics
- vi) Classify antineoplastic agents,
- vii) Discuss pharmacological uses of thyroid and antithyroid drug
- viii) Define and classify corticosteroid and give detailed account of prednisolone
- ix) Elaborate the action mechanism of drugs used in Congestive Heart Failure

-----END OF THE PAPER-----