	Sanjay Ghodawat University, Kolhapur Established as State Private University under Govt. of Maharashtra. Act No XL,2017	2023-2024 EXM/P/09/00
Year and Program **T.Y.B.Pharm**	**School of Pharmaceutical Sciences**	**Department: Pharmacy**
Course Code:BP501T	**Course Title: Medicinal Chemistry -II**	**Semester –V**
Date:19/12/23 **Day:Tuesday** **Time: 10.30-1.30 pm**	**Examination: End Semester**	**Max Marks:75**

Instructions: 1) All questions are compulsory.
2) Draw a neat labeled diagram if necessary.

Q.1	Multiple choice Questions (20 X 1)	Mark's 20	Bloom's Level	CLO
a)	Antihistamine drugs are antagonists for which receptor? a)H1 receptor antagonist b)H2 receptor antagonist c)H3 receptor antagonist d)H4 receptor antagonist	1	1	2
b)	Drugs that decrease the pressure of the lower esophageal sphincter are: (a) anticholinergics (b) antibiotics (c) antiarrhythmias (d) antidiuretics	1	1	2
c)	Which class of antibody is associated with an allergic reaction- (a)IgE (b) IgA (c) Ig (d) IgG	1	1	2
d)	Which of the following alkylating agents is employed for carbon & carbon alkylations (a)Ethylene (b) Propylene (c) Butylenes (d) All of the mentioned	1	1	3
e)	Cancer can be treated by - (a) Surgery (b) Radiation, Immuno, Chemo therapy (c) Both A & B (d) None	1	1	2
f)	Busulphan is - (a)Cytotoxic Drug (b)Bifunctional alkylating agent (c)Approximate or similar to chlorambucil (d)All of the above	1	1	3
g)	Identify the drug which come under the category of Coumarines oral anticoagulant (a)Warfarin (b)Phenprocouman (c)Menadion (d)clopidogrel	1	1	3

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h)	Which of the following enzyme is essential for the conversion of histidine to histamine? (a)Histidine amylase (b) Histidine hydrolase (c) Histidine decarboxylase (d) Histidine phosphorylase	1	1	3
i)	Which of the following is Vit.K antagonist (a)Acetyl salicylic acid (b)Warfarine (c)clopidogrel (d)All of the above	1	1	5
j)	Which of the following antianginal agents is a calcium channel blocker? (a)Nitroglycerin (b)Nifedipine (c) Isosorbide dinitrate (d)Atenolol	1	1	5
k)	Diethylaniline is prepared from aniline and ethyl alcohol in presence of which acid? (a)Nitric acid (b) Hydrochloric acid (c) Sulphuric acid (d) All of the mentioned	1	1	2
l)	Which of the following histamine receptor increases the release of gastric acid? (a)H1 receptor (b) H2 receptor (c) H3 receptor (d) H4 receptor	1	1	5
m)	The antihypertensive drug which inhibit ACE (a)Analpril (b)Captopril (c)Ramipril (d)All of the above.	1	1	5
n)	Which of the following is the first antihistamine? (a)Piperoxan (b)Ethylenediamine (c)Alkylamines (d)Tricyclics	1	1	5
o)	Sotalol belongs to class — (a)Class I (b) classII (c)classIII (d) classIV	1	1	3
p)	Drug of choice in the treatment of Digitalis induced arrhythmia is — (a)Ditalis (b)Dogoxin (c)Phenytoin (d)promethazine	1	1	3
q)	Type I diabetis is also known as — (a)Insulin dependanat DM (b)Non- Insulin dependanat DM (c)Juvenile-onset DM (d)Both A& C	1	1	2

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r)	One of the following antihypertensive drug useful topically to stimulate hair growth is — (a)Nifedepine (b)Esmolol (c)Minoxidil (d)Losartan	1	1	3
s)	Which of the following is not a major risk factor for atherosclerosis? (a)Family history (b) Cigarette smoking (c) Obesity (d) Male gender	1	1	5
t)	Long-term use of PPIs can delay the diagnosis of: (a)Hepatitis (b) Anemia (c) Gastrinomas (d) Dementia	1	1	2

Q.2	Long Answers (Answer 2 out of 3)	20	Bloom's Level	CLO
a)	Define and classify diuretics with examples. Explain the mechanism of action of loop diuretics and write the synthesis of furosemide.	10	1	4
b)	Discuss classification of local anaesthetics with suitable examples and write the SAR of benzoic acid derivatives.	10	2	3
c)	What are antihyperlipidemic agents? Explain their Classification and mechanism of action. Write the structure and uses of Clofibrate and Lovastatin.	10	3	5

Q3	Short Answers (Answer 7 out of 9)	35	Bloom's Level	CLO
a)	Define and Classify antiarrhythmic agents with examples? Give their Medicinal uses.	05	1	5
b)	Write a note on thyroid and antithyroid drugs	05	2	1
c)	Give the synthesis of promethazine and Triprolidine.	05	1	3
d)	Explain in detail about histamine receptors and their biological importance.	05	2	2
e)	Define the term hypoglycemic agents. Give the structure of any two sulfonylyreas and outline the synthesis of Tolbutamide.	05	3	3
f)	Explain a note on antianginal agents. Outline the synthesis of nitroglycerine.	05	1	3
g)	Define and classify local anaesthetic agent with examples. Outline the synthesis of Benzocaine.	05	2	3
h)	Describe the nomenclature and stereochemistry of steroids.	05	2	3
i)	Write a note on sex hormones.	05	2	2

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