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Roll No.

341551(41)

**B. Pharmacy (Fifth Semester) Examination,
April-May 2020**

(PCI Scheme)

(Pharmacy Branch)

MEDICINAL CHEMISTRY-II

THEORY (BP501T)

Time Allowed : Three hours

Maximum Marks : 75

Note : Question paper is of three parts i.e. Part A, B and C. Part A consist of 20 MCQ's each carries 1 mark. All questions are compulsory. Part-B consists of 3 long answer questions of which attempt any **two**. Each carries 10 marks. Part C consists of 9 short answer questions, attempt any **seven** questions. Each carries 5 marks.

Part-A

20×1=20

Note : Attempt all questions.

1. Multiple Choice Questions :

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- (i) All drugs are H_2 -Receptor Antagonist except :
- (a) Cimetidine
 - (b) Famotidine
 - (c) Ranitidine
 - (d) Aspirin
- (ii) Omeprazole produce their action by inhibiting :
- (a) Proton pump
 - (b) Gastric acid
 - (c) Calcium channel
 - (d) Potassium channel
- (iii) Which of the following Histamine Receptor responsible for gastric acid secretion?
- (a) H_1
 - (b) H_2
 - (c) H_3
 - (d) H_4
- (iv) Drugs which contains Piprazine ring in their structure :
- (a) Chlorocyclizine

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- (b) Buclizine
 - (c) Meclizine
 - (d) All
- (v) Anticancer drugs which produce their action by inhibiting spindle fibre formation or inhibit mitosis in cells :
- (a) Vincristine
 - (b) Etoposide
 - (c) Mercaptopurine
 - (d) Busulfan
- (vi) Identify the drugs which is inhibitor of $Na^+ - K^+$ ATPase.
- (a) Digoxin
 - (b) Nesiritide
 - (c) Bosentan
 - (d) Terosentan
- (vii) Example of Calcium channel blocker drugs use in Angina Pectoris :
- (a) Cisplatin

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- (b) Mannitol
- (c) Metformin
- (d) Verapamil

(viii) Example of Osmotic Diuretics :

- (a) Acetazolamide
- (b) Mannitol
- (c) Bumetanide
- (d) Chlorthiazide

(ix) In most forms of glaucoma, what damage the optic nerve?

- (a) Too much pressure on the optic nerve
- (b) Too little pressure on the optic nerve
- (c) Not wearing prescription glasses
- (d) Eyestrain from reading in a darkened room

(x) Which of the following Antihypertensive drugs useful to stimulate hair growth :

- (a) Minoxidil
- (b) Losartan

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- (c) Sodium nitroprusside
- (d) Verapamil

(xi) Which of the following antiarrhythmic drug also use in anticonvulsants :

- (a) Sotalol
- (b) Phenytoin
- (c) Amiodarone
- (d) Mexiletine

(xii) Clofibrate is :

- (a) Anti-hyperlipidemic drug
- (b) Anti-coagulants drug
- (c) Anti-arrhythmic drug
- (d) Anti-hypertensive drug

(xiii) Drugs which contain coumarin nucleus in their structure :

- (a) Warfarin
- (b) Menadione
- (c) Clopidogrel
- (d) All of the above

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(xiv) Mechanism of Digitalis is :

- (a) Decrease in Calcium uptake
- (b) Increase in ATP synthesis
- (c) Increase in Intracellular level
- (d) Modify Actin molecules

(xv) Drugs use in Oral Contraceptives :

- (a) Mifepristone
- (b) Acarbose
- (c) Benzocaine
- (d) Furosemide

(xvi) All drugs are come under in Sex Hormones category except :

- (a) Oestradiol
- (b) Stilbestrol
- (c) Nandrolone
- (d) Tadalafil

(xvii) Example of Sulfonyl urea derivative drugs use in Anti-diabetic agents :

- (a) Metformin

(b) Tolbutamide

(c) Voglibose

(d) Repaglinide

(xviii) Another name of Type-I Diabetes is :

- (a) Insulin Dependent Diabetes Mellitus
- (b) Non-Insulin Dependent Diabetes Mellitus
- (c) Juvenile-Onset Diabetes Mellitus
- (d) (a) and (c) both

(xix) Which of the following Local Anaesthetics drugs is Benzoic acid derivative :

- (a) Lignocaine
- (b) Etidocaine
- (c) Mepivacaine
- (d) Cocaine

(xx) All drugs are Local Anaesthetics except :

- (a) Procaine
- (b) Benzocaine
- (c) Mepylcaine
- (d) Melphalan

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Part-B

2×10=20

(Long Answer Type Questions)

Note : Answer any two question from Part-B. All question carry equal marks.

2. Define the term 'Local Anaesthetics'. Classify local anaesthetics with examples. Elaborate SAR and Mode of Action of local anaesthetics.
3. What are Antineoplastic agent? Classify them with suitable example. Write the structure, synthesis and uses of any one Antineoplastic drugs.
4. Explain and classify Diuretics agent. Write an exhaustive note on SAR of Thiazide Diuretic.

Part-C

5×7=35

(Short Answer Type Questions)

Note : Answer any seven question from Part-C. All question carry equal marks.

5. Describe structure, properties and uses of any two drugs of H₁-Antagonist.

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6. Write a short note on Vasodilator.
7. What are Anti-hypertensive agents? Write short note on ACE Inhibitor.
8. Discuss mechanism of action of Anti-arrhythmic drugs. Write their classification with suitable example.
9. Classify different classes of Lipoproteins. Write mechanism of action of Statins.
10. Differentiate between Coagulant and Anti-coagulants. Write the structure, uses and synthesis of Warfarin.
11. Write an exhaustive note on Corticosteroids.
12. What are Oral-hypoglycaemic agent? Classify Anti-diabetics agent with suitable example.
13. Write a short note on : Anti-Thyroid drugs or Drug used in Congestive Heart Failure.