Sample MCQ's
Final year B. Pharm Sem-VII (CBCS)
Subject: Pharmaceutical Chemistry-II

Q1. Select wrong statement about SAR of 1,4-DHP.
A) 1, 4-dihydropyridine ring is essential for CCB activity.

B) Ester groups at C-3 and C-5 positions of 1, 4-dihydropyridine ring optimizes the CCB activity.

C) C-4 Phenyl ring substituent's is important for electronic nature rather than for size and position of substituent's.

D) Substitution at the N-1 position or used of oxidized (Pyridine) or reduced (piperidine) ring systems generally decreases or abolishes activity

Q2.All CCB are act by blocking or inactivating ____ calcium channel

A) L-type B) N-type

C) P-type D) T-type

Q3.Select CCB compound present primarily in ionized form at physiological pH

A) nifedipine B) verapamil & Amlodipine

C) nifedipine & verapamil D) verapamil

Q4. amyl nitrite is an ester of _____& _____
A) isoamyl alcohol & nitrous acid B) isoamyl alcohol & nitric acid

C) amyl alcohol & nitrous acid D) amyl alcohol & nitric acid

Q5.All of the following anti-arrhythmic drugs are from Class-IC except_____

A) Lidocaine B) Mexiletine

C) Tocainide D) Diltiazem

Q6. Class I anti-arrhythmic drugs acts by

A) Other or unknown mechanisms. B) Blocking Calcium (Ca^{2+}) channel

C) Blocking sodium (Na^{+}) channel D) Blocking Potassium (K^{+}) channel

Q7. 6-chloro-1,1-dioxo-2*H*-1,2,4-benzothiadiazine-7-sulfonamide is IUPAC name of which drug
A) Hydroflumethiazide B) Trichlormethiazide
C) Methyclothiazide D) Chlorothiazide
Q8. Which of the following diuretic drug contains Benzhydrazides moiety

A) Chlorthalidone B) Indapamide C) Quinethazone D) metolazone

Q9. Furosemide is Site-2 Diuretic belonging to _____ Chemical class.

A) 5-Sulphamoyl anthranilic acids B)5-Sulphamoyl-3-amino benzoic acid
C) Phenoxyacetic acids D) *Meta*-disulfamoylbenzene

Q10. _____ is tricyclic ring containing antihistaminic compound.

A) Fexofenadine B) Loratadine
C) Astemizole D) Cetirizine

Q11. Conversion of histidine into histamine is catalyzed by

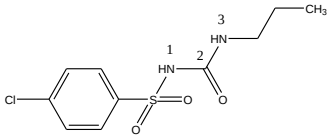
A) aldehyde dehydrogenase B) histamine N-methyl transferase
C) L-histidine decarboxylase D) monoamine oxidase

Q12. ____ is furan ring containing H2-antihistaminic drug.

A) cimetidine B) ranitidine
C) famotidine D) nizatidine

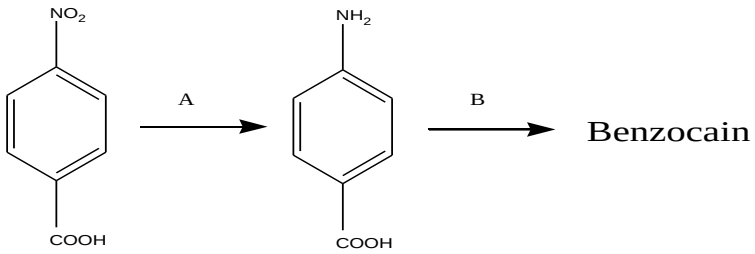
Q13. All of the following drugs are from DPP-IV inhibitors Class except_____
A) saxagliptin B) vildagliptin
C) sitagliptin D) exenatide

Q14. Identify following drug



A) Tolbutamide B) Chlorpropamide
C) Tolazamide D) Acetohexamide

Q15.Identify reagent A and B in following synthesis



A) A= Sn/HCl, B= EtOH / H2SO4 B) A= Sn/HCl, B= MeOH / H2SO4
C) B= Sn/HCl, A= EtOH / H2SO4 D) A= KMnO4, B= EtOH / H2SO4

Q.16 Name the highly reactive chemical species generated during activation of Cyclophosphamide antineoplastic drug which causes extensive damage to cells of the kidney and bladder.

A) Phospholene B) H radical

C) Acrolein D) OH radical

Q.17 The Neuraminidase inhibitor, Oseltamivir is orally effective because of which structural feature

A) It is a prodrug formed by converting carboxylic acid functional group into ester.
B) Replacing hydrogen from amino group hydrogen with acyl moiety
C) Presence of pentan-3-yloxy group at position 3
D) Presence of Cyclohexene ring in the structure

Q. 18) The antiviral agent Stavudine from the class nucleotide reverse transcriptase inhibitor, is chemically known by which of the following names

A) 2′,3′-dideoxyinosine
B) 2', 3'-dideoxycytidine
C) 2', 3'-dideoxy- 2', 3'-didehydrothymidine
D) 2',3',4'-trideoxyinosine

Q.19)Enhanced tissue selectivity is possible in nitrogen mustards, when the "R" group in the Pharmacophore structure is one of the following

A) Aliphatic group B) methoxy group
C) Aromatic group D) ethoxy group

20) The glucopyranose moiety of streptozocinantineoplastic agent conferswhat cell specificity

A) Islet cell specificity B) Kidney cell specificity

C) Lung cell specificity D) Heart cell specificity

Q.21 Select the correct statement about the antiviral agents from the class which affects virus attachment, entry and early viral replication

A) Amantadine has more CNS side effects as compared to Rimantadine
B) Rimantadine has more CNS side effects as compared to Amantadine
C) Amantadine and Rimantadine both shows equal CNS side effects
D) Amantadine and Rimantadine both do not show any CNS side effects

Q. 22 The first step in the mechanism of action of DNA alikylating agents is one of the following

A) Intermolecular nucleophilic attack B) Intramolecularnucleophilic attack
C) Hydrolytic depurination D) Intramolecular electrophilic attack

Q.23 Which enzyme is inhibited by 5-Fluorouracil

A)Amidophosphoribosyltransferase B) Thymidylate synthase
C)DNA polymerase D) DNA methyltransferase

Q.24 Azaerine acts by competitively inhibiting which of the following enzyme?

A) Amidophosphoribosyltransferase B) DNA polymerase
C) glutamineamidotransferase D) Thymidylate synthase

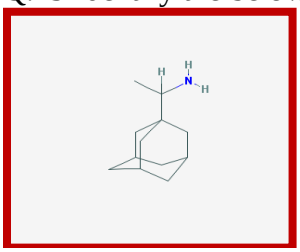
Q.25 The fifth step in the mechanism of action of Nitrogen mustard involves one of the following reaction
A) Hydrolytic depurination B) Nucleophilc attack
C) Electrophilic attack D) Substitution reaction

Q.26 Which of the following Nitrogen mustard agent belongs to miscellaneous class
A) Cyclophosphamide B) Chlorambucil
C) Busulfan D) Mechlorethamine

Q.27Cancer is nothing but the;
A) Uncontrolled growth of a cell B) Controlled growth of a cell
C) Death of a cell D) Apoptosis of the cell

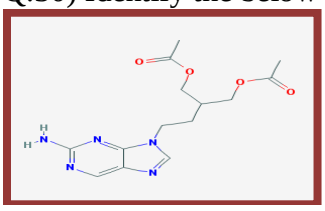
Q.28 Which of the following agent belongs to the class of Nitrosourea anticancer agent
A) Carmustine B) Mechlorethamine
C) Cyclophosphamide D) Busulfan

Q.29 Identify the below given structure from the Antiviral class



A) Amantadine B) Rimantadine
C) Zanamivir D) Oseltamivir

Q.30) Identify the below given structure which is one of the prodrug of Acyclovir (M)



A) Penciclovir B) Famciclovir
C) Vidarabine D) Idoxuridine