Q. No. 1 – 20 Carry One Mark Each

- 1. An antidiabetic drug Piogliazone used in Type 2 diabetes acts by
 - (A) Decrease of glucose uptake in muscles (B) Increasing insulin sensitivity
 - (C) Inhibiting intestinal n-glucosidase (D) Stimulating insulin secretion
- 2. An anglotensin-II receptor blocker useful in treating hypertension is (A) Enalaprilat (B) Valsartan (C) Atenolol (D)Amiodipine
- 3. Co-administration of NSAIDs with Warfarin may often lead to
 - (A) Antagonistic interaction
 - (B) Interaction to change in drug transport
 - (C) Interaction due to disturbances in electrolyte balance
 - (D) Additive or synergistic interaction
- Laminaria and Kelp are the principal genera, currently used for the industrial production of
 - (A) Carrageenans (B) Agar
 - (C) Fucans (D) Alginic acid and alginates
- A transverse section of the root fo Glycyrrhiza glabra when treated with 80% sulphuric acid gave
 - (A) Deep yellow colour (B) No reaction, but only charring
 - (C) Deep blue colour (D) Deep red colour
- 6. Microscopy of the bulbs of Urginea Indica family Liliaceae shows
 - (A) Prisms of calcium oxalate
- (B) Calcium carbonate and silica
- (C) Rosettes of calcium oxalate (D) Raphides of calcium oxalate

7. Streptomycln is a

(A) Methdilazine

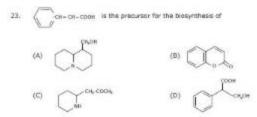
- (A) di-acidic base possessing an aldehydic carbonyl group
- (B) tri-acidic base possessing an aldehydic carbonyl group
- (C) neutral compound possessing a ketonic group
- (D) acidic compound possessing a carboxylic group
- 8. The antihistamine with diphenyl methyl group is
 - (B) Cyclizine hydrochloride
 - (C) Pheniramine (D) Phenindamine

9.	Heterocyclic rings present in pilocarpine are								
	(A) Imidazole and Quinoline		(B) Imidazole and	d Thiazole					
	(C) Quinoline and Phenanthre	sne	(D) Imidazole and	d Dihydrofuran					
10.	The most important microb meningitis is	ial virulence	factor in the et	tiology of bacterial					
	(A) Exotoxin		(B) Components of	of the capsule					
	(C) Coagulase		(D) Hyaluronidase						
11.	Commonly used tetanus vacci	ne is produce	d by						
	(A) treatment of the causativ	e organism v	ith hest or UV light	and finally					
	obtaining the toxold								
	(B) sub-culuring the virus at p	H 10.4							
	(C) artificially generating anti								
	(D) isolating the antigenicity (genes from th	e causative organis	um.					
12.	which of the following equation	ins is valid fo	r standard 8-DNA?						
	(A) A+T=G+C (B) A+	r≠2(G+C)	(C) 2(A+T)=3(G+C	(D)A+G=T+C					
13.	Clinical jaundice, typified by y levels of	ellowing of ti	ne tissues is associa	ited with elevated					
	(A) serum lysozyme		(B) serum bilirub	in .					
	(C) serum creatinine		(D) serum y-gluta	inyi transferase					
14.	In NMR spectrometry, the che	smical shift (4	6) is expressed in						
	(A) Parts per million (B) Geo	155	(C) Tesla	(D) Hertz					
15.	In chromatographic separatio process of	n, the differe	nt species in the sa	mple, undergo the					
	(A) chemical interaction (B) par	tition	(C) volatilization	(D)Ionization					
16.	A target material used in the	production of	X-rays is						
	(A) potessium (B) cop	per	(C) aluminium	multide(C)					
17.	The requirements and guide new drugs as per the Drugs 8								
	(A) N (B) Y		(8) A	(D)8					
18.	The growth of large particles difference in the solubility of t								
	(A) Interfacial phenomenon		(8) Partitioning						
	(C) Erosive formulation		(8) Partitioning (0) Oswald ripening						

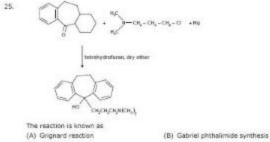
- Cyclic obgomers of glucose that form water soluble inclusion complexes, which are biocompatible and improve the bioevailability of drugs
 - (A) chlorophyli (B) polyethylene glycol
 - (C) cross povidone (D) cyclodextrin
- 20. 'Draves test' is associated with measuring the efficiency of
 - (A) Detergents (B) Wetting agents
 - (C) Suspending agents (D) Adsorbent

Q. No. 21 - 75 Carry Two Marks Each

- 21. Effects of fibrates on blood lipids are mediated by
 - (A) Inhibiting both synthesis and esterification of fatty acids
 - (B) Their interaction with peroxisome proliferators-activated receptors (PPARs)
 - (C) Reducing the conversion of HMG-CoA to mevalonate
 - (D) Sequestering bile acids
- 22. A cardioselective beta blocker with vasodilating properties is
 - (A) Pindolol (B) Atenolol (C) Bisoprolol (D)Nebivolol



- 24. (-) Hyoscyamine is
 - (A) 15-20 times more active as a mydriatic than (+)- hyoscyamine
 - (B) Inactive as a mydriatic
 - (C) 3-5 times less active as a mydriatic than (+)- hyoscyamine
 - (D) 100 times more active as a mydriatic than (+)- hyoscyamine



(C) Gomberg reaction

(D) Reimer Tiemann reaction

- 26. In thiazole diuretics, the position 7 is very important and is occupied by a (A) CH₂ group (B) Free sulpharnoyl group (D) Free - NH₂ group (C) Chioro group
- 27. Compound I reacts with II to form X

X 15 0.0 1 T (A) Ethyl biscournacetate (C) Warfarin

(B) Phenindione (D) Dicoumarol

- 28. A mass spectrum is obtained by plotting
 - (A) Molecular weight versus peak height
 - (B) Concentration versus peak height
 - (C) Concentration versus degree of deflection of ions
 - (D) Abundance of ions versus their m/e ratio
- 29 Aldehydes can be distinguished from other C=O containing compounds by IR, due to
 - (A) The low frequency of absorption of aldehydes
 - (B) The alkyl or anyl group is attached to >C=O
 - (C) The double bond present
 - (D) The double at the C-H-stretching region

- 30. A super disintegrant in tablet formulation is
 - (A) sodium starch glycollate (B) starch
 - (C) PVP (D) Mg-Aluminium ellicate
- 31. A drug was administered to 30 subjects as a tablet (30 mg), an oral aqueous solution (30 mg) and as an intravenous infusion (0.3 mg). Mean AUC's (ng.hr/mL), dose normalized to 1 mg, for tablet, oral solution and IV were 0.91, 0.87 and 103.0 respectively.

Calculate the relative bicavailability of the drug in tablet compared to the oral solution and the absolute bicavailability of tablet form

- (A) 104.6%, 0.883% (C) 10.46%, 8.83% (B) 81%,5.6%
- (D) 19%, 56%
- 32. When ammonium chloride is gradually and slowly incorporated into an emulsion stabilized with ammonium oleate,
 - (A) Emulsion will crack immediately
 - (B) It will invert from o/w to w/o type
 - (C) It will invert from w/o to o/w type
 - (D) There will be no impact on its physical stability
- A prescription requires 4 mEq/ liter of hydrogen phosphate ion HPO₄⁻⁰. How many milligrams of dibasic potassium phosphate K₂HPO₄ (molecular weight 174) be required?
 - (A) 174 mg/litre (B) 30.5 mg/litre (C) 522 mg / litre (D) 348 mg/ litre
- 34. Gram positive bacteria typically contain
 - (A) cell walls that lack peptidoglycans
 - (B) repeating units of arabinogalactan and mycolates in their cell walls
 - (C) Peptidoglycan containing muramic acid and D-amino acids in their cell walls
 - (D) cell walks containing predominantly polysaccharides and glycoprotein
- 35. Quaternary structure of a protein molecule refers to
 - (A) Specific association of two or more copies of a polypeptide chain to result in a biologically active molecule
 - (B) Regularly seen local structures within a polypeptide chain
 - (C) The portion of the polypeptide chain that comes into contact with another protein molecule
 - (D) The portion of the structure that gets stabilized upon binding to nucleic acids
- 36. A blood sample is treated with alkaline phosphotungestic acid to from tungsten blue, which is estimated colorimetric ally to give a positive reaction. The sample containa (A) Protien (B) Serum creatinine
 - (C) Serum Phenylalanine
- (D) Uric acid



Note: The Information Provided here is only for Reference. It may vary the Original.

37.	Two important s	teps for plant regenerat	ion by organogenesi	s are				
-3323		nt of callus cultures	(Q) Initiation of somatic embryogenesis					
	(R) Germination	of seeds	(5) Initiation of	cell suspensions				
	(A) Q, S	(B) P, R	(C) P, S	(D)Q, R				
38.	Two tests for ep	hedrine are						
	(P) A solution in dilute HCI, treated with copper sulphate and sodium hydroxide gives a violet colour							
	(Q) An alcoholic	solution gives a red coli	our with FeCl ₃					
	(R) On shaking with solvent ether, the organic layer shows purple while the aqueous layer becomes blue in colour							
	(S) A solution of	vanillin gives a violet-r	ed colour					
	(A) Q. 5	(B) P, S	(C) P, R	(D)Q, R				
39.	Dried fruits of sy	vest fennel has two of t	he following properti	w5				
		inethole, 10% of meth						
	(Q) 65-75% (+)- Linalool as a constitutent							
	(R) The fruit is a diakene, almost cylindrical and surrounded by large stylopod							
	(5) The fruit is elongated and surrounded by calyculus							
	(A) P. R	(8) Q, S	(C) P, S	(D)Q, R				
	10.310.00							
40.	Dihydroxy acets following	one phosphate is invol	ved in the biosynt	heses of two of the				
	P: serotonin	Q: triacylglycerol	R: pyruvate	S: methionine				
	(A) P, Q	(B) P, R	(C) Q, S	(D) Q, R				
41.	The virus responsible for SARS can be described by two of the following features							
	P: It contains double-stranded DNA and requires two complementary strands to be synthesized to serve as mRNA.							
	Q: It has distinctive club-shaped particles projecting from the surface, appearing like a crown.							
	R: It contains plus-strand RNA that can serve directly as mRNA							
	S: It is retrovin	us and requires extra ce	stuter DNA for replic	ation				
	(A) P, Q	(8) P, 5	(C) Q, R	(D) R _v 5				
42.	Two of the follow	ving facts are associated	with Ethylene oxide	e gas				
	(P) It is non to	sic and non inflammable	e and used for sterili	zation				
	(Q) It is a colo (R) It is diluted	urless inflammable gas, I with CO ₂	toxic in nature and	I used for sterilization				
	(S) It cannot p	enetrate plastic and pag	er packaging.					
	(A) P, R	(8) P. S	(C) R, S	(D)Q, R				

43. T	his.	compound						
0	P) i	s active pa	renterally		"5 "J. +== 0"			
0	Q) i	shows great	ter activity orally than	parenterally	1			
				~	1 - I			
0	R) (s orally ina	cove	Í.				
C	5) (nas no pare	interal activity	HO	\sim			
0	a) I	P, Q	(B) Q, R	(C) R, S	(D)P, S			
44. T	raih	examic acid	118					
p		rans-4-am	ino methyl cyclohexan	e carboxylic acid				
9	1	polypeptic	te .					
R		an inhibitor	of proteolytic enzyme	including plasmin				
5	1	used for the	prophylaxis of hernol	inflage associated wit	h excessive fibrinolysis			
()	A) I	P, 5	(B) P, R	(C) Q, R	(D)R, S			
45. P	Prostaglandins are derivatives of							
P	4	Cas acid						
q	Q 7-(2 cyclohexyl) pentenoic acid							
R		Can prostan	oic acid					
5		7-(2 octyl c	yclopentyl) heptanoic	acid				
0	A) I	P, Q	(B) R, S	(C) P, R	(D)Q, S			
	Two ex-officio members of the Drugs Technical Advisory Board under Drugs and Cosmetics Act are							
0	P)	The Drugs	Controller General of	India				
()	Q)	The Presid	ent, Medical Council o	f India				
0	R)	The Secret	ary, Pharmacy Council	# of India				
6	5)	The Direct India	or, National Institute	of Pharmaceutical Ed	ducation and Research,			
U	a)	P, Q	(B) P, R	(C) R, S	(D)P, 5			
47. C	alfa	ictant is						
p		e sterile no premature i		factant intended for i	ntracgeal instillation to			
q	1	s synthetic	surfactant popularly u	ised to prepare total p	parental mutrition			
R	1	a potent chi	elating agent used to	prevent metal aduce	d exidation process			
5		an extract o	of natural surfactant fr	om calif lungs				

(A) P, Q	(B) R, S	(C) P, S	(D)Q, R

48.	sum	icient time	soavailability studies, in between each drug adm ically, wash-out is deemed	inistra	stion to e	nsure that 'washout' is				
	(P)	95% is wa	shed out	(0)	100% is a	washed out				
	(R)	5 biologica	i haif-lives have elapsed	(5)	(5) 2 biological half-lives have ela					
	(A)	P, R	(B) P, S	(C)	Q, R	(D)Q, S				
49.	Two	reference e	ectrodes are							
	P.	Glass men	nbrane electrodes	Q. Sb/Sb ₂ O ₃ electrodes						
	Ħ.,	Calomet el	ectrode	s.	Silver/Silv	ver-chioride electrode				
	(A)	P, Q	(B) Q, S	(C)	R, S	(D) P, R				
ю.	Pola	rography ca	in be used for the							
	Ρ.,	P simultaneous determination of several analytes								
	Q.									
	R									
	s	study of op	ptical activity of organic co	mpeu	nds					
	(A)	P, 5	(B) Q, S	(C)	P, R	(D)P, Q				
1.	Prio	Primary amines show								
	P	P Two N-H stretching bands in the range of 3500 - 3300cm ⁻¹								
	Q.	Only one b	and in the region 3500 -	3300	cim's					
	R	-NH band in primary amine results in a broad band in the region 1640 - 1560 cm ⁻¹								
	5	the typical -NH2 stretching value at 1715 cm ³								
	(A)	Q, R	(B) P, R	(C)	₽, 5	(D)Q, S				
z.	The drug disulfiram is									
	P									
	Q									
	н.	t known to stimulate dopamine p-hydroxylase								
	s	used in barbiturate poisoning								
	(A)	P, S	(B) Q, R	(C)	R, 5	(D) P, Q				
3.	Two	important a	attributes associated with	L- asp	araginase					
	P1	an enzyme	obtained from E.Coli and i	s adm	inistered p	paranterally				
	Q;	an enzyme orally	obtained from Streptoc	occus	caespitos	us and is administered				
	R;	used in acu	te lymphocytic leukemia							
	5:									

(B) P, R (C) Q, R

(A) P, S

(D)Q, 5

54.	Amikacin is							
1.00		c aminoplycoside and	a derivative of ker	amurio				
		c aminoglycoside and						
				e nephrotoxicity and				
	otooxicity	aran bararrararà a	ing more over sere	an empirication of a main				
		ed parenterally and is	s both nephrotoxic	and ototoxic				
	(A) P, Q	(B) P, R	(C) P, S	(D)Q, S				
55.	Matching exercise combinations	s. Match Group I	and Group-II and	I identify the correct				
	Group-I		Group-II					
	Plant		Source					
	(P) Thorn apole		(1) Dried leaves and flowering					
	2.4. (Cont. 1996)		tops of Hyoscyamus niger					
	(Q) Henbane		(2) Dried leaves and flowering					
	West Disconstruction		tops of Datura Stramonium					
	(R) Deadly nightsh	ade	(3) Leaves of t	ligitalis purpurea dried				
			at a tempe	rature below 60°C				
	(5) Foxglove leave	s .	(4) Dried leave	is and other aerial				
			parts of At	ropa acuminate				
	(A) P-2Q-1R-	45-3	(B) P - 1Q -	2 R - 3 S - 4				
	(C) P - 3Q - 4R -	25-1	(D) P - 2Q -	3 R + 4 S + 1				
55.	Group I	Group II						
	Drugs	Source						
	(P) Kaolin (1) natural dia		atomaceous earth consisting of skeletons of fossils					
	(Q) Kieselguhr	(2) purified native from gritty pa	e hydrated aluminiu rticles	um silicate free				
	(R) Calamine	(3) hydrated mag	nesium silicate					
	(S) Talc		ains zinc oxide with a small amount					
		of ferric axide	24					
	(A) P-1 Q-4 I	1-3 5-2	(B) P-2 Q-	4 R-1 S-3				
	(C) P-2 Q-1 3	1-4 5-3	(D) P-3 Q-3	2 R-1 5-4				

57. Proof for the following in the natural products is obtained by some reactions

Group-I Natural product Group-II

(P) Cholesterol-nature of ring

Reactions (1) Treatment with HNO₂ forms a nitrose compound

- (Q) Ephedrine-secondary amino group (2) Selenium dehydrogenation gives Diel's hydrocarbon

(R) Morphine-secondary-OH group	(3) With-CHJ In aqueous KOH gives (-) codaina, which is not solubla in alkali; codaine can be oxidized with chromic acid to codainone
(S) Caffeine-nature of ring	(4) Oxidation with potassium
	chlorate in hydrochloric acid gives dimethyl alloxan and methyl urea
(A) P = 3Q = 1 R = 2 S = 4	(B) P - 2 Q - 1 R - 3 S - 4
(C) P - 3Q - 4R - 1S - 2	(D) P - 4Q - 2R - 1S - 3

58. Derivatives of cortisol and their structural modifications are

	Group I Derivative		Group II Structural modification				
Ρ.	Prednisolone 1.		1, 2-dehydro, 9o-fluoro, 15o-methyl				
Q,	Dexamethasone 2.		1, 2-dehydro				
R.,	Betamethasone 3. Triamonolone 4.		1, 2- dehydro, 9o-fluoro, 168-methyl				
5.			1, 2-dehydro, 9a-fluaro, 16a-hydroxy				
(A)	P-2 Q-1 R-3 S-4	4	(B) P-2 Q-1 R-3 S-4				
(C)	P-2 Q-4 R-3 S-1	1	(D) P-3 Q-2 R-1 S-4				

59.		Group I		Group II
		Drugs		Starting material for synthesis
	Ρ.	Clofazimine	1.	p-chloronitro benzene
	Q.	Ketoconazole	2.	L-phenyl alanine
	R.,	Melphalan	3.	-N-(4-chiorophenyl)-O-phenylenediamine
	5.	Dapsone	4.	2, 4-dichloro phenylbromide and glycerine
	(A)	P-1 Q-2 R-3 5	5-6	(B) P-4 Q-3 R-1 S-2
	(0)	P-3 Q-4 R-2 S	6-1	(D) P-2 Q-1 R-4 S-3

60.	Group 1	Group II				
	Industrial dryers	Pharmaceutical materials dried				
	(P) Drum dryer	(1) Antibiotic solution				
	(Q) Fluidized bed dryer	(2) Tablet granules				
	(R) Spray dryer	(3) Gelatin				
	(5) Freeze dryer	(4) Suspension of kaolin				
	(A) P-1 Q-3 R-4 S-2	(B) P-4 Q-2 R-3 S-1				
	(C) P-4 Q-2 R-1 S-3	(D) P-3 Q-2 R-4 5-1				

61.	Group I	Group II
	Name of equation	Equation
	(P) Noyes & Whitney equation	$(1) \frac{dM}{dt} = \frac{DS}{h}(C_{h} - C)$
	(Q) B.E.T equation	(2) $\frac{P}{\gamma \left(P_{0}-P\right)} = \frac{1}{\gamma_{\mu} b} + \frac{b-1}{\gamma_{\mu} b} \frac{P}{P_{0}}$
	(R) Stokes equation	(3) $v = \frac{d^2 (P_{\mu} - P_{\mu}) g}{18 \eta_0}$
	(S) Higushi equation	(4) $Q = \sqrt{\frac{DC_s t}{2A - C_s}} (2A - C_s)$
	(A) P-4 Q-2 R-3 S-1	(B) P-2 Q-4 R-1 S-3
	(C) P-4 Q-2 R-1 5-3	(D) P-1 Q-2 R-3 S-4
62.	Group I Group II	

Gro	up I	Group II						
Type	e of coating	Coating materials						
(P)	Seal coating	(1) HPMC						
(Q)	Sub coating	(2) Carnauba wax						
(R)	Polishing	(3) Gelatin						
(5)	Film coating	(4) PEG 4000						
(A)	P-4 Q-3 R	-2 5-1	(B)	P-4	Q-2	R-3	5-1	
(C)	P-2 Q-4 R	-1 5-3	(D)	P-1	Q - 3	R = 2	5-4	

63.

risk of hyperkalemia
a and asystole
risk of bone marrow suppression
S depression

64.

		Group I Receptors	1	Group II Agonists
	P	(I-adrenetgic (Type 2)	1	Phenylephrine
	Q	a-adrenergic (Type 1)	2	Bromocriptine
	R.	Dopaminergic (Type 2)	3	Ritodrine
	5	5-hydroxytryptamine (Type 1A)	-4	Buspirone
(A) P-	1 0	-4 R-3 S-2 (8) F	P-3 Q-2 R-4 5-1
(C) P-2	z Q	-3 R-4 S-1 (D) F	P-3 Q-1 R-2 S-4

65.

	Group I Drugs		Group II Mechanism		
P.	Terbinafine	1	Inhibition of reverse transcriptase		
Q	Cidofovir	ž	Selective inhibition of squalene epoxidase		
R	Imatinib	3	Inhibition of DNA polymerase		
\$	Stavudine	4	Tyrosine kinase inhibitor		

66. Group I Materials used

67.

P. Sodium chloride Q. Glass R. Quartz

Group II

	output at
	Instrumental techniques
1.	Colorimebry
2.	UV spectrophotometry
3.	x-ray diffraction
4.	IR spectrophotometry
(8)	P-4 Q-1 R-2 S-3
(D)	P-2 Q-3 R-4 S-1

Group I Drugs

S. Potassium hydrogen phthalate
 (A) P-1 Q-2 R-3 S-4
 (C) P-3 Q-4 R-1 S-2

Group II

	Drugs		B. P. Assay
р,	topanoic acid	1.	Titration of a solution in anhydrous forms: Acid and acetic anhydride with 0.1 N perchloric acid
Q.	Cyclizine hydrochloride	2.	Titration of a solution in dimethyl formamide With 0.1 M tetrabutyl ammonium hydroxide
R.	Chlorothiazide	3.	Treating with sodium hydroxide and zinc powder and then titration with 9.1 N silver nitrate
5,	Chiorambucii	4.	Titration with 0.1 N sodium hydroxide using phenolphthalein indicator
(A)	P-1 Q-2 R-3 5-4		(B) P-2 Q-4 R-1 S-3
(C)	P-4 Q-3 R-1 S-2		(D) P-3 Q-1 R-2 S-4
	Group I		Group II

65. Group I

Techniques

P. Potentiometry Q. Polarography Group II

- Related equations
- $1. \quad id{=}708nCD^{4/3}m^{3/3}t^{1/4}$
- $2, \quad V_{k}=t_{k}F_{a}$

R. Colorimetry

3. P-3 Q-1 R-2 S-4E=E⁶ - RT log[H']

S. Column chromatography 4. A=sbc (A) P-1 Q-4 R-3 S-2 (B) P-3 Q-2 R-1 S-4 (C) P-2 Q-3 R-4 S-1

(D) P-3 Q-1 R-4 S-2

69.

	Group I Test		Group II Principle
p	Direct agglutination test	1	Measures antibody titres after soluble antigens are attached to inert particles and incubated with antibodies
Q	Passive applubnation	2	betects blocking-type antibodies, globulins and complement that are attached to red cell antigans
R.	Haemagglutination inhibition test	3	RBCs coated with homologous antigens edded to antibodies incubated with soluble antigens
s	Coomb's test	4	RBS antigens incubated with antibodies and antibody titre visually examined
(A	P-2 Q-4 R-1 5-3	24	(B) P-4 Q-1 R-3 5-2

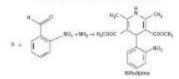
(C) P-1 Q-3 R-2 S-4

(D) P-3 Q-2 R-4 5-1

70.

	Group I Enzymes		Group II Functions
p	Na*-K* ATPase	1	Bectron transport
Q	Cytochrome c oxidase	2	Pathway converting pyruvate to oxaloacetate
R	Malate dehydrogenase	3	Generation of electrochemical potential
s	Tyrosine Kinase	4	Signal transduction
Ų	A) P-3 Q-1 R-2 S-	- 4	(B) P-1 Q-3 R-4 5-2
e	C) P-2 Q-4 R-1 5	-3	(D) P-4 Q-2 R-3 S-1

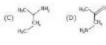
Common Data Questions 71, 72 & 73



71. Respent X is







- Nifedipine when exposed to day light and artificial light, is readily converted to a 72. derivative of (B) Ntrosophenyl pyridine
 - (A) 4-Phenyl pyridine (C) Diazophenyl pyridine
 - (D) Nitrobenzené
- 73. The B.P.assay of Nifedipine is by titration of a
 - (A) Solution in anhydrous acetic acid with 0.1M perchloric acid
 - (B) Solution in previously neutralized acetone with 0.1N sodium hydroxide; end point by potentiometry
 - (C) Solution in previously neutralized acetone against standard potassium dichromate solution
 - (D) A solution in 2 methyl -2 propanol and perchloric acid with 0.1M cerium subplate using ferroin as indicator

Common Data Questions 74 & 75

Tenoposide is a natural product used for the management of certain diseases.

- 74 2 is derived form
 - (A) Flavonolignans form Silybum marianum
 - (B) Lignans from Podophyllum pettatum
 - (C) Lignans from Schizandra chinensis
 - (D) Neolignans from Piper futokadisura
- 75. This drug is used in the management of
 - (A) Candidiasis
 - (C) Cardiac arrhythmia
- (B) Trypanosomiasis (D) Acute leukemia in children

Linked Answer Questions: Q.76 to Q.85 Carry Two Marks Each

Statement for Linked Answer Questions: 76 & 77

Extracts of Chondrodendron tomentosum, family menispermaceae contains several alkaloids

- One of the important alkaloid is 76.
 - (A) (-) Phyllandrene (C) (+) Tubocurarine
- (B) (+) Holarmenine (D) (±) Colchicine

This alkaloid has

 (A) Bis benzyl tetrahydro isoquinoline ring
 (B) Quinoline ring
 (C) Phenanthrene ring
 (D) Pyrido pyrimidine ring

 Statement for Linked Answer Questions: 78 & 79

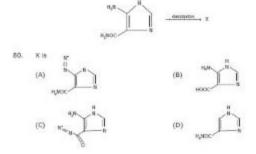
 Several drugs are used for migraine
 Acute migraine is treated with
 (A) Prazosin
 (B) Formeterol
 (C) Sumstriptan
 (D) Dopamine

 The drug chosen is an agonist of

 (A) e₄ advenceptor
 (B) 5-hTip receptor

Statement for Linked Answer Questions: 80 & 81

A drug which is used for malignant melanoma is obtained as follows



81. X on treatment with dimethylamine gives the drug

