## Q. 1-Q. 20 carry one mark each.

- O. 1. The characteristic odour of onion bulbs is attributed to
  - (A) quercetin glycosides

(B) furostanol glycosides

- (C) heterogeneous sulphated polysaccharides
- (D) alkyl or alkenyl disulphides
- Q.2. The chief constituent of the seeds of Strophanthus gratus or wood of Acokanthera schimperi belonging to the family Apocynacea is G-strophanthin. On hydrolysis, it gives (B) ouabagenin (A) scillarenin

(C) cannogenin

(D) diosgenin

- Q. 3. The duration of action of a sublingual nitroglycerin tablet is (A) 8 - 10 hours
  - (B) 4 8 hours

(C)10-30 minutes

- (D) 3 5 minutes
- Q. 4. Identify the adrenergic receptor, whose agonists can be misused by sportsmen for anabolic effects
  - $(A) \alpha_1$

(C) B,

- (D) B2
- Q. 5. When the urinary pH becomes 8.0, significant increase in the excretion of one of the drugs takes place
  - (A) Mepyramine

(B) Aspirin

(C) Morphine

- (D) Mecamylamine
- Q.6. Condensation of 6-Hydroxy-2,4,5-triaminopyrimidine with 1,1,3-trichloro acetone and N-(4-aminobenzoyl) glutamic acid at pH 4 to 5, in the presence of sodium bisulphite gives (A) Pteroyl glutamic acid (B) Amethopterin
  - (C) Triamterene

(D) Aciclovir

- Q.7. The common structural feature of iodoxamic acid, iotalamic acid, diatrizoic acid and iocarmic acid is
  - (A) sulphonaphthalein

(B) 2,4,6-tri-iodo benzoic acid

- (C) tri-iodo triphenyl methanoic acid
- (D) tri-iodo diphenyl methanoic acid
- Tranylcypromine, a psychoanaleptic and antidepressant drug is synthesized from

(A) 
$$CH_2CH_2CH_3 + N N COOC_2H_5$$
  
(B)  $CH=CH_2 + N N COOC_2H_5$   
(C)  $COOCH_2CH_2CH_3$   
(D)  $COOCH_2CH_2CH_3$ 

- Q. 9. List of diseases and ailments which a drug may not purport to prevent or cure or make claims to prevent or cure under the Drugs and Cosmetics Rule 1945 is given under
  - (A) Schedule J

(B) Schedule K

(C) Schedule M

- (D) Schedule P
- Q. 10. Annatto consists of the dried seeds of Bixa orellana, L. Family Bixaceae. The chief constituent is
  - (A) triterpene alcohol

(B) crocin and crocetin

(C) capsanthin

- (D) carotenoid
- Q. 11. 'Cresol with soap solution' is a preparation, in which soap is incorporated to (A) impart detergent property
  - (B) improve mutual miscibility of cresol and water by reducing critical solution temperature of cresol-water system
  - (C) sustain the germicidal action of cresol
  - (D) improve the stability of cresol
- Q.12. When stoichiometric amount of CaCl2 is added to an emulsion stabilized with sodiumalginate, it will
  - (A) crack immediately
  - (B) change the nature from w/o to o/w
  - (C) change the nature from o/w to w/o
  - (D) accelerate the phenomenon of Ostwald ripening.
- Q. 13. Chlorine or Bromine substitution in aromatic compounds
  - (A) enhances fluorescence (C) quenches the fluorescence
- (B) does not change the fluorescence (D) removes the fluorescence
- Q. 14. Solvent programming, also called gradient elution, involves
  - (A) changing the column length
    - (B) changing the mobile phase composition
    - (C) using the mobile phase unchanged
    - (D) successive injection of sample.

Q. 15.	Calibration of the cell constant of a condu (A) 0.1 M NaCl	ctance cell is carried out by using a solution of (B) 0.1 M CaCl <sub>2</sub>
	(C) 0.1 M KCl	(D) 0.1 M AlCl <sub>3</sub>
Q. 16.	Hybridoma technology is widely used for p	producing
	(A) callus cultures -	(B) organ cultures
	(C) monoclonal antibodies	<ul><li>(D) attenuated micro-organisms</li></ul>
Q. 17.	'Gene therapy' refers to the process of:	
	(A) identifying disease causing genes and	
	(B) increasing the expression levels of t	he set of genes involved in a given disease in
	affected cells through selective modu	lating agents.
	(C) transfer of new genetic material to the	e cells of an individual for therapeutic benefit.
	(D) removal of the proteins corresponding	g to the disease causing genes from the cells of
85	the affected individual.	
O. 18.	A technician is attempting to sterilize a plu	ug of cotton in hermetically sealed condition in a
50 To 211:	glass bottle by autoclaving. Which of the f	following statements is correct?
	(A) It should be sterilized at 115-118° C	for 30 minutes.
	(B) It should be sterilized at 121 to 124°	C for 15 minutes at 15 lbs/sq. inch pressure.
	(C) Sterilization cannot be achieved.	
	(D) It should be autoclaved at 126-129° (	with saturated steam for 10 minutes.
Q.19.	Hyperuricaemia is associated with the ab-	normal metabolism of
	(A) pyrimidine	(B) purine
	(C) riboflavin	(D) thiamme
Q.20.	What is the concentration of NaCl require	ed to make 1% solution of cocaine HC1 isotonic
Q.20.	with blood plasma? Freezing point of 1%	6 w/v solution of NaCl is -0.576° C and freezing
	point of 1 % w/v cocaine HCl is -0.09°C.	
8	(A) 0.746% w/v	(B) 0.9% w/v
	(C) 0.5 w/v	(D) 0.373% w/v
	Q. 21 to Q. 75 carr	
0.21	Arillode is	
Q.21.	(A) warty out-growth from micropyle, e.g	z castor
	(B) succulent growth from hilum coverin	a the entire seeds a a nutmea
	(C) outgrowth originating from micropyle	e and covering the seeds e g cardamom
	(D) enlarged funicle, e.g., colchicum seed	
0.11	Cing amon consists of the dyied inner har	k of the shoots of coppiced trees of Cinnamomum
Q. 22.	zeylanicum Nees. The typical microscopi	a charactery of the bark are
	(A) biggriote madullery rays, secretory	cavities containing volatile oil and mucilage and
	four stands grains in cortical parench	yma and calcium oxalate in parenchymatous cells.
	(D) 2.5 leaves of cork calls containing of	il globules. Presence ofschizogenous canal
	(C) modullary rays multiserists the pe	eriderm portion cork has both tangentially and
	radially elongated cells, stone cells	present and no phloem fibres
	(D) as foliated cork non-liquified with 2	2-4 layers of phellogen. 15-20 rows of phelloderm.
	Prominent vascular tissue.	- Trayers of phenogen. 15 20 fems of phenodecin.
0.23	An essential ingredient in the general pro	engration of plant tissue culture media is
Q.25.	(A) auxin or naphthalene acetic acid	(B) sucrose or glucose
	(C) gibberlin G <sub>1</sub> or gibberlin G <sub>2</sub>	(D) pyridoxine HCl.
0.24	The drugs mefloquine promonil and	primaquine can be effectively used in diseases
Q.24.	produced by	,
	(A) Mycoplasma	(B) Dermatophytes
	(C) Protozoa	(D) Spirochaetes
0.25	. Identify the recentor which demonstrates	s the fastest onset of response, when stimulated.
Q.25.	(A) Nuclear receptors	(B) Ionotropic receptors
	(C) G-protein coupled receptors	(D) Insulin receptor
Q.26.	One of the following drugs is converte.	d to the corresponding deoxy nucleotide, which
Q.20.	shows cytotoxicity	
	(A) Dactinomycin	(B) Lomustine
	(C) Vincristine	(D) 5-Fluorouracil
Q.27.	The compounds 2-Methyl-3-phytyl-1.	4-naphthoquinone and 2-methyl-3-all-trans-
Q	farnesylgeranylgeranyl-1, 4-naphthoqui	none are commonly known as
	(A) Vitamin D <sub>2</sub> and D <sub>3</sub>	(B) Vitamin A <sub>1</sub> and A <sub>2</sub>
	(C) Vitamin K <sub>1</sub> and K <sub>2</sub>	(D) Vitamin B <sub>1</sub> and B <sub>2</sub>
Q.28.	(7)-5-Fluoro-2-methyl-l-(IP-(methyl-su	lphinyl) phenyl] methylene}-lH indene-3-acetic
Q.20.	acid reaches neak blood levels within 2	-4 hours and undergoes a complicated reversible
	metabolism to become active. Active me	taholite has the group
	O	
	ĭ	0
	(A) D S D	(B) 1
	(A)K    K	R S R
	0	11
	200 W.S.	H
	(C) p S p	(D) S
	, n	R R

Q.29. An intermediate for the synthesis of benzodiazepine derivatives can be prepared by treating 4-chloro aniline with benzoyl chloride in the presence of zinc chloride as a catalyst. Identify the intermediate

Q.30. Find the product X in the reaction

- Q.31. In the preparation of ointments, macrogols are used as
  - (A) water soluble base

(B) hydrocarbon base

- (C) absorption base
- (D) oleogenous base Q.32. An antioxidant commonly used in the formulation of a non-aqueous parenteral preparation is
  - (A) thioglycollic acid (C) sodium metabisulphite
- (B) ascorbic acid (D) butylated hydroxy toluene
- Q.33. Phosphatidic acid and its derivatives form liposomes because
  - (A) in a fully hydrated condition, they are conical in shape
  - (B) in a fully hydrated condition they are cylindrical in shape
  - (C) they contain only non-polar moieties in their structures
  - (D) their saponification values are unusually low.
- With regard to the standards for Sterile Water for Injection, IP, the 'residue on evaporation' limit is
  - (A) higher than Water for Injection, IP
- (C) same as that of the Water for Injection IP
- (B) lower than Water for Injection, IP
- (D) no such standard is prescribed in the monograph

35. T	he number of peaks given by th	ie <sup>1</sup> H NMR spec	trum of 2-methyl-	l-pentene is
( A	A) 4		(B) 5	
	C) 6		(D) 3	
36. In	HPLC, the analytical perform	ance improves		
(6	A) particle diameter is increase	d		cle diameter is reduced
37. In	C) coarser particles are paired v	with shorter col	umns (D) low t	emperature is used
	crease in the extent of conjuga	ition of a double		
5.00	A) hyperchromic shift C) hypsochromic shift		(B) hypochro	
10	) hypsochronic sitti		(D) bathochro	omic shift
0	. 38-54 are multiple selection	on items P O	P S are the or	otions Two of these
	ptions are correct. Choose			
0.38.	Alkaloids derived from ornith			
	(P) cocaine			
	(O) colchicine			
	(R) hyoscyamine			
	(S) emetine			(a)
	(A) Q, S		(B) P, R	
	(C) S, R		(D) P, Q	
Q.39.	Aloe barbadensis has two of	the following ch	aracters	
	(P) The drug obtained is wh			
	(Q) The drug is opaque, yelle	owish brown to	chocolate, brown	in colour breaks with a
	waxy fracture			
	(R) The drug has a pungent			e microscope
	(S) Under the microscope, a	cicular crystals	are visible	
	(A) P, R		(B) P, S	
	(C) Q, S		(D) Q, R	25
Q.40.	Taerolimus is a macrolide an			
	(P) produced from Streptom	yces hygroscop	icus and is chemic	cally related to cyclosporine
	(Q) binds with cytoplasmic	peptidyl-propy	l-isomerase and	can be useful in liver and
	kidney transplants			
	(R) produced from Streptom	yces tsukubaen:	sis and is chemical	lly unrelated to cyclosporine
	(S) an inhibitor of pyrimidit	ne synthesis, use	ed in rheumatoid a	arthritis
	(A) P, Q	K = 50	(B) P, S	
	(C) Q, R		(D) Q, S	
Q.41.	Metformin acts by two mecha	anisms		
	(P) Increasing insulin secreti-			(d) 1 (d)
	(Q) Inhibiting a-glucosidase			# W 3
	(R) Decreasing hepatic gluco	se production		
	(S) Increasing insulin action	in muscle and f	at	
3 3	(A) P, Q		(B) R, S	
X 4	(C) P, R	α.	(D) Q, S	(4)
Q.42.	Metabolic oxidation of car	bon-nitrogen,	carbon-oxygen a	nd carbon-sulphur system
	principally involves two basi	ic types of bio-ti	ransformation pro	ocesses.
	(P) Hydroxylation of the α-	carbon atom att	ached directly to	the heteroatom
	(Q) Mixed function oxidase	system also or	cidizes carbon ato	m adjacent to carbonyl an
	imino functions			
	(R) Hydroxylation or oxidat	tion of the heter	o-atom only	e e
	(S) Microsomal hydroxylat	ion at allylic car	rbon atom	
	(A) P, R		(B) P, S	
	(C) Q, R		(D) R, S	
Q.43.		ne. SILVADEN.	E, is an effective to	opical antimicrobial agent
Z	burns because of its two imp			
	(P) Broad spectrum of activ			
	(Q) Active against Pseudon	onec con		
	(R) The salt is only very cli	ohth colubba	4.5	
	(R) The salt is only very sli acts on the external cell	gridy soluble an	id it does not pene	trate the cell wall, instead
	(S) The salt is highly saltill	sauciure		
	(S) The salt is highly soluble (A) P, O	e and nence it i		1
			(B) R, S	
	(C) O P		(D) P, S	
O 44	(C) Q, R			
Q.44.	In the synthesis of chlorphen	iramine, two in	portant ingredien	ts required are
Q.44.	In the synthesis of chlorphen (P) 4-chloro benzyl cyanide	iramine, two im	portant ingredien	us required are
Q.44.	In the synthesis of chlorphen (P) 4-chloro benzyl cyanide (Q) 4-chloro pyridine	iramine, two im	portant ingredien	is required are
Q.44.	In the synthesis of chlorphen (P) 4-chloro benzyl cyanide (Q) 4-chloro pyridine (R) 2-chloro benzyl cyanide	iramine, two in	portant ingredien	ns required are
Q.44.	In the synthesis of chlorphen (P) 4-chloro benzyl cyanide (Q) 4-chloro pyridine (R) 2-chloro benzyl cyanide (S) 2-chloro pyridine	iramine, two in	portant ingredien	its required are
Q.44.	In the synthesis of chlorphen (P) 4-chloro benzyl cyanide (Q) 4-chloro pyridine (R) 2-chloro benzyl cyanide	iramine, two in	portant ingredien (B) P, S	its required are

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Q.45. Zeta potential
             (P) is the difference in potential between the surface of the t ghtly bound layer and the
                  electroneutral region
             (Q) is the potential at the solid surface of the suspended particle
             (R) can be positive, zero or negative
             (S) is the electrothermodynamic potential
             (A) P, R
                                                                (B) P, S
             (C) Q, R
     Q.46. Two of the official standards for uncoated tablets as per IP are
             (P) shape
             (Q) friability
             (R) disintegration time
             (S) uniformity of weight
             (A) P, Q
                                                                (B) P, S
             (C) Q, R
                                                                (D) R, S
     Q.47. As per Schedule 'O' of the Drugs and Cosmetics Rules 1945, the minimum Rideal Walker
             Coefficients for Grade 1 and Grade 3 Black disinfectant fluids are
             (P) 18
             (Q) 10
             (R) 5
            (S) 14
            (A) P, R
                                                               (B) Q, S
            (C) P, S
                                                               (D) R, S
    Q.48. The IR spectrum of an organic liquid can be taken by placing it between a pair of polished
            plates made of
            (P) NaCl
                                                               (Q) FeSO<sub>4</sub>
            (R) KBr
                                                               (S) AICI<sub>3</sub>
            (A) P, Q
                                                               (B) P, S
            (C) R, S
                                                               (D) P, R
  Q.49. In gas chromatography, derivatisation is desirable to
          (P) improve the thermal stability of compounds
          (Q) enable interaction with carrier gas
          (R) introduce a detector oriented tag into the molecule
          (S) remove contaminants
         (A) P, Q
(C) P, R
 Q.50. Neutral thioaliphatic ammo acids found in proteins are
         (P) Methionine
         (Q) Valine
         (R) Cysteine
         (S) Leucine
         (A) P, Q
                                                            (B) P, R
         (C) P, S
                                                            (D) R, S
 Q. 51. Diazoxide, a benzothiazide derivative produces
         (P) vasoconstriction by activating ATP sensitive K+ channel
         (Q) vasodilatation by activating ATP sensitive K+ channel
         (R) inhibition of insulin secretion
         (S) stimulation of insulin secretion
        (A) P, R
                                                           (B) Q, R
        (C) P, S '
                                                           (D) Q, S
Q.52. The principle of ELISA is based on these two observations
        (P) Antibodies and antigens can attach to solid-phase supports and still maintain their full
             immunologica! capabilities
        (Q) Antibodies complex with enzymes allowing full separation of antigen molecules
        (R) Antigens and antibodies can be bonded to enzymes and resulting complexes are still
             fully functional both immunologically and enzymatically
        (S) Enzymatic action is crucial for converting the antigens to render them suitable for
            binding to antibodies
        (A) P,Q
                                                           (B) P, R
        (C) Q,R
                                                          (D) Q, S
Q.53. Which of the following are likely to be good targets for designing antihypertensive drugs?
        (P) H<sub>2</sub> histamine receptor
        (Q) Proton pump
        (R) Calcium channel protein
       (S) α<sub>2</sub>-adrenergic receptor
     (A)P,Q
    (C) P, R
                                                       (B) R, S
                                                      (D) Q, S
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Q. 54. The characteristics of the Sabin vaccine administered orally for prevention of polio (P) It consists of live attenuated strains of three immunological types of the poliovirus (Q) It is generally not used in infants below 9 months of age (R) It contains serum antibodies that are active against specific strains of polioviruses

(S) It has the risk of occasionally reverting back to virulent strains, resulting in vaccine-O. 55-70 are Matching Exercises Match Group I with Group II and identify the correct combination Mucilages are plant products formed at different parts of the plant Q.55. Group-II (Example) Group-I (Plant part from which it is formed) (P) Cell wall of seed epidermis (1) Fenugreek (O) Endodermis (2) Senna (3) Squill (R) Epidermis of leaf (S) Special secretory cells (4) Linseed (a) P-1 R-3 R-1 R-2 R-2 S-3 S-3 Q. 56. Group-I (Crude Drugs) Group-II (Chemical nature of their chief constituents) (1) Imidazole alkaloids (P) Ergot (Q) Jaborandi (2) Steroidal compounds (3) Indole alkaloids (R) Kurchi (S) Pterocarpus (4) Condensed tannins P-3 0-1 Q-1 Q-4 0-2 R-2 R-4 R-2 R-4 S-1 Group-I (Common reagents used in pharmacognosy) Group-II (Uses) (1) disintegration of sclerenchymatous (P) 5% aqueous chlor-zinc-iodine solution tissue (2) staining lignifled walls pink or red (Q) phloroglucinol and hydrochloric acid solution (3) removal of fixed oils and fats (R) a mixture of equal parts of ether and ethanol (S) a mixture of equal parts of chromic acid and (4) staining cellulose walls blue nitric acid P-3 P-4 Q-4 Q-2 Q-3 Q-1 R-3 R-2 R-4 R-1 S-3 S-4 Q. 58. Group-I (Reactions) Group-II (Names) (P) n-propyl-m-tolyl ketone is converted to (1) Perkin condensation m-(n-butyl) toluene using NH2-NH2 and a base at 200°C (Q) phenol is treated with chloroform and (2) Wolff-Kishner reduction aqueous sodium hydroxide by which, salicylaldehyde is formed P-1 P-4 (R) benzophenone and methylene triphenyl Q-3 Q-3 Q-3 (3) Wittigs reaction phospharane are treated and the product R-4 R-1 formed is 1,1 diphenyl ethene (S) benzaldehyde is treated with acetic (4) Reimer-Tiemann reaction anhydride in the presence of sodium acetate, 3 phenyl-propenoic acid is formed Q. 59. Group-I (Name of the enzyme) Group-II (Description) (P) Sutilains (1) Mixture of proteolytic enzymes obtained from the pineapple plant used for soft tissue inflammation and oedema (Q) Uròkinase (2) It is a tissue plasminogen activator P-4 produced by recombinant DNA Q-3 technology R-2 R-3 R-2 (R) Alteplase Obtained from tissue culture of S-1 human kidneys and is glycosylated serine protease (4) A proteolytic enzyme obtained from cultures of Bacillus subtilis consisting of two polypeptide used to dissolve necrotic tissue in chains connected by a single burns, bed sores and ulcerated disulphide bond wounds.

(S) Bromelains

	Group-I	(Physical f	form of sub	stances)		Group-H (Rheolog	ical prope	rties)		
	•	entrated flo	o hetelused	uenension	2.1	(1) Plastic flow (2) Pseudoplastic fl	ow			
	(Q) Cond	entrated III	of moth	d callulose		(3) Dilatant flow				
	(R) Liqu	id dispersio	n or memy	od particles		(4) Newtonian flow	/	1		
				ed particles (d)		(., 1.,				
	(a)	(b)	(c)	( <i>a</i> ) P-1						
	P-4	P-3	P-2							
	Q-1	Q-2	Q-3	Q-4						
	R-2	R-1	R-4	R-3						
	S-3	S-4	S-1	S-2		Group-II				
Q. 61.	Group-	Ĺ				(1) Griffin				
	(P) Crys	tal growth				(2) Sorensen				
	(Q) pH:	scale				(3) DLVO theory				
	(R) HLI	3 scale				(4) Ostwald ripeni	ng			
	(S) Inter	particular f	orce			(4) Ostward riperii	ng			
	(a)	(b)	(c)	(d)						
	P-4	P-3	P-2	P-1						
	Q-2	Q-1	Q-4	Q-3						
	R-1	R-2	R-3	R-4						
	S-3	S-4	S-1	S-2		~ ** (50% .		litus		
O. 62.	Group	I (Method	of purifica	tion)		Group-II (Effect of	on water q	in content		
Q. 02.	(P) Ent	rainment pr	eventive d	istillation		(1) CPU value an	d endotox	in content		
	(1)					usually increa	ses			
	(O) Sin	nple distilla	tion			(2) Pyrogen free v	water	E-25 2-25N		
	(D) De	verse osmos	sis			(3) Endotoxins at	nd pyroge	ns are not		
	(IC) ICC	reise osino.				removed		22 27 7927		
	(C) Ion	-exchange	Œ.			(4) Small organi	c molecu	iles (mol.	0	
	(3) 1011	-cachange				wt., approxim	ately less	than 200)		
						are not remov				
		(1)	(c)	(d)						
-2	(a)	(b) P-4	P-2	P-3						
	P-1	1000 H	Q-3	Q-2						
	Q-4	Q-1	R-4	R-1						
E 19	R-3	R-2	S-1	S-4						
0000 E22	S-2	S-3	2-1	3-4		Group-II (Mecha	anism)			
Q. 63	. Group	-I (Drug)				(1) Inhibition of	viral DNA	synthesis		
	(P) Ri	fabutin				(2) Inhibition of	mycobac	terial RNA		
	(Q) Pe	enciclovir				polymerase		10		
						(3) Inhibition of	HIV prote	ease		
	(B) (B) (B) (B) (B)	riquimod		12/2		(4) Immunomod	ulation			
	(S) A	nprenavir	2			(4) Infindionio				
	(a)	(b) .	(c)	(d)						
	P-1	P-3	P-2	P-4						
	Q-2	Q-4	Q-1	Q-3	87					
	R-4	R-1	R-4	R-2		2.7				
	S-3	S-2	S-3	S-1		N.		20 07		
Q. 64	. Group	-I (Respon	ses/Incide	ntc)						
	(P) Fa	se transmit	ter	)		Group-II (Bioac	tive substa	inces)		
	(Q) St.	Antony's f	fire		4	(!) Histamine				
	(R) Tr	ple respons	ie.			(2) Methyldopa				
9	(S) Str	aub phenon	nenon			(3) Morphine				
	(a)	(b)	(c)	( B		(4) Ergot alkaloid	i			
-	P-2	P-1		(d)			3			
	Q-4	Q-4	P-3	P-4		(V)				
6	- R-I	R-3	Q-2	Q-3						
	S-3	S-2	R-1	R-2						
0.65		-I (Adverse	S-4	S-1						
4, 00,	(P) Rev	a'c sund	effects)			Group-II (Drugs)	(a)	(1)	3 333	
	(C) U	e's syndror pertrichosis	ne			(1) Chlorampheni	col P-J	(b)	(c)	(d)
	(P) G <sub>20</sub>	ertricnosis				(2) Morphine		P-3	P-4	P-4
	(K) Gre	y baby synd	drome			(3) Aspirin	Q-2	Q-4	Q-1	Q-3
	(3) Pinp	oint pupil	8			(4) Minoxidil	R-4	R-1	R-2	R-2
						( ) - monday	S-3	S-2	S-3	S-1
Group-I (7	echnique	Used)		c	rone_TY	(Analytical				
		-53		G	·oub-II	(Analytical method o	f			
(P) Polarog	raphy			(1	) Potent	evaluation) ial-volume curve	(a)	(b)	1.5	13 F2F
(Q) Potenti	ometry			(1	Current	t retent	P-1	(b)	(c)	(d)
(R) Conduc	tometry			12	) Cond	t-potential curve		P-2	P-3	P-4
(S) Ampero	metry			- (4	) Cuma	ctance-volume curve	R.2	Q-1	Q-2	Q-1
				(4	, carren	t-volume curve	R-2 S-4	R-3	R-4	R-2
							3-4	S-4	S-1	S-3

## **Pharmacophore Solutions**

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

9.67	Group-	i (Type	oj radiani	n)			Group-II (Wavelet	noth				152
		io freque	ency				(1) > 100mm	ngin) (	(a)	8	(b)	(c)
	(Q) UV						(2) 200 - 380 nm	I	P-1		P-3	P-1
	(R) X-ra (S) Mid	ay					(3) 10 pm - 10 nm		Q-4		Q-2	Q-2
	(S) Mid	-IK					(4) $2.5 - 50 \mu m$	1	R-3 S-2		R-1 S-4	R-3
Q. 68.	Group-L	Spravin	g reagents	unad in		<i>P</i> .					3-4	S-4
	chromato	graphic i	methods)	изеи п			Group-II (Type of su	ubstance	e)			
	(P) SbCl <sub>3</sub>	in CHC	l <sub>3</sub>				(1) Carboxylic acid	6	a)	13	(b)	(c)
	(O) D	م امتضام	reaan .				(2) Aldehyde or Keto		2-2		P-3	P-1
	(Q) Brome (R) Anilin	ocresor g	nto				(3) Steroid		O-1		Q-1	Q-3
	(S) 2.4 dir	nitropher	nyl hydrazi	ne			(4) Sugar		R-4		R-4	R-2 S-4
Q. 69. Gro			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7.8		Gre	oup-II (Test organism)	for	S-3		S-2	5-4
Q. 69. Gro	up-1 (Anti	Divinca)	8 8				microbiologica	ıl assay	IP)			
(P) !	Erythromy	cin				(1)	Staphylococcus auren	IS .				868
(0)	Doxicyclin	ie '				(2)	Pseudomonas aerugin	iosa	(a)		<b>(b)</b>	(c)
(R)	Carbenicil	lin				(3)	Saccharomyces cerev	isiae	P-4		P-3	P-1
(S)	Amphoteri	cin B		7076 OX		(4)	Micrococcus luteus	8 8	Q-1		Q-2	Q-2
2020				o.#0 23 	2 161		*****		R-2		R-1	R-4
2. 70. Gro	up-I (Horn	none) .				Gro	up-II (Action)	acodila	S-3		S-4	S-3
(P) V	asopressit	1	6 756			(1)	Modulates extensive v Helper hormone to con	rticotro	nhin			
(Q)	Oxytocin		(40			(2)	releasing hormone	, acono	him			
							Stimulates synthe	esis	of			
(R) I	Bradykinin					. 28,	components of milk					
(8) 1	Prolactin					$(d)^{(4)}$	Responds to suckling	g reflex	and			
(3)1	Totactili	(a)	(b) P-1	(c) P-4		(4)	estradiol					
		P-2	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1000000		P-3						
		Q-4	Q-2	Q-3		Q-1						
	Since and	Q-4 R-1 S-3 data for	Q-2 R-3 S-4 or Question	Q-3 R-2 S-1 ns 71 and leaves i	rich	Q-1 R-4 S-2 in cocain	e, a pyschostimulant, l	have bee	en use	ed by		
Q.71.	Since and	Q-4 R-1 S-3 I data for icient time Americal	Q-2 R-3 S-4	Q-3 R-2 S-1 ns 71 and a leaves to asticator	rich i y age	Q-1 R-4 S-2 in cocain	om (B) 0.7-1.5%	have bed	en use	ed by		
	Since and the South The alkar (A) 3-4 % (C) 0.01	Q-4 R-1 S-3 I data for ident time Americal loid cond 6 -0.02%	Q-2 R-3 S-4 or Question es, the coccurans as a macentration	Q-3 R-2 S-1 ns 71 and leaves to asticatory in coca leaves	rich i y age eave	Q-1 R-4 S-2 in cocain ent.	om (B) 0.7-1.5% (D) 9-11 %	have bed	en use	ed by	r	
-	the South The alkar (A) 3-4 % (C) 0.01 Cocaine,	Q-4 R-1 S-3 data for ient time Americ loid cond 6 -0.02%	Q-2 R-3 S-4 or Question es, the cocasans as a macentration	Q-3 R-2 S-1 ns 71 and leaves to asticator, in coca leaves	rich i y age eave	Q-1 R-4 S-2 in cocain ent.	om (B) 0.7-1.5% (D) 9-11 %	have bed	en use	ed by		
-	Since and the South The alkai (A) 3-4 % (C) 0.01 Cocaine, (A) incre	Q-4 R-1 S-3 I data for icient time Americal loid conde 6 -0.02% the alka	Q-2 R-3 S-4 or Question es, the coccurans as a magnitude derive	Q-3 R-2 S-1 ns 71 and a leaves to a stricator in coca le	rich i y age eave	Q-1 R-4 S-2 in cocain ent.	om (B) 0.7-1.5% (D) 9-11 %	have bee	en use	ed by		
-	the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhib	Q-4 R-1 S-3 I data for itime Americ doid cond 6 -0.02% the alka asing no	Q-2 R-3 S-4 or Question es, the coccurans as a macentration	Q-3 R-2 S-1 ns 71 and a leaves to asticator in cocal leaves to a from cocal leaves to a synthesis synthesis synthesis	rich i y age eave	Q-1 R-4 S-2 in cocain ent. s vary fr	om (B) 0.7-1.5% (D) 9-11 %	have bee	en use	ed by	e e	
-	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhibit (C) inhibit	Q-4 R-1 S-3 I data for item time Americal condition of the alka assing nor iting monthing cate	Q-2 R-3 S-4 or Question es, the coccusans as a macentration alloid derive radrenaline moamine or	Q-3 R-2 S-1 ns 71 and a leaves to asticator in cocal leaves to asticator cocal leaves to a supplied to a sup	rich y age eave	Q-1 R-4 S-2 in cocain ent. s vary fr	om (B) 0.7-1.5% (D) 9-11 %	have bed	en use	ed by	e e	
	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhib. (C) inhib. (D) inhib.	Q-4 R-1 S-3 Indata for item time Americal conditions of the alka asing noriting more iting noriting cate	Q-2 R-3 S-4 or Question es, the coccuration centration aloid derive radrenaline noamine or echol-O-me adrenaline	Q-3 R-2 S-1 ns 71 and a leaves to a sticator in cocal leaves to a	rich y age eave	Q-1 R-4 S-2 in cocain ent. s vary fr	om (B) 0.7-1.5% (D) 9-11 %	nave bed	en use	ed by	al al	
-	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre (B) inhib (C) inhibit (D) inhibit Common	Q-4 R-1 S-3 I data for time Americal conditions on the alka assing notiting moniting moniting moniting notation and as for a data fo	Q-2 R-3 S-4 or Question es, the cocceans as a magnification and the community of the commun	Q-3 R-2 S-1 ns 71 and leaves to a sticatory in coca leaves to a sticatory in coca leaves to a synthese stidase ethyl transecutations	rich i y age eave coca iis	Q-1 R-4 S-2 in cocain ent. s vary fr	om (B) 0.7-1.5% (D) 9-11 %	have bed	en use	ed by	al al	
Q.72.	Since and the South The alkate (A) 3-4 % (C) 0.01 Cocaine, (A) incree (B) inhibit (C) inhibit Common Chloram	Q-4 R-1 S-3 I data for interest in Americal Control Control 6-0.02%  the alka assing notiting moniting cate iting no fata fata fata busil ID.	Q-2 R-3 S-4 or Question es, the cocceans as a macentration alloid derive radrenaline or chol-O-me adrenaline or Question	Q-3 R-2 S-1 ns 71 and leaves to asticator in coca life and from coca l	rich i y age eave coca iis	Q-1 R-4 S-2 in cocain ent. s vary fr	om (B) 0.7-1.5% (D) 9-11 %	have bed	en use	ed by		
Q.72.	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incree (B) inhibit (C) inhibit Common Chloram Chloram Chloram	Q-4 R-1 S-3 a data for interest in Americal Control Control 6 -0.02% the alka assing notiting more interest in data for bucil IP blucil is	Q-2 R-3 S-4 or Question es, the cocceans as a macentration aloid derive radrenaline or chol-O-me adrenaline or Question Is a cytoto	Q-3 R-2 S-1 ns 71 and leaves to asticator in cocal life and from c	rich i y age eave coca iis	Q-1 R-4 S-2 in cocain ent. s vary fr	om (B) 0.7-1.5% (D) 9-11 %	have bee	en use	ed by		
Q.72. Q.73.	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhib. (C) inhib. (C) inhib. Common Chloram (A) amin (C)	Q-4 R-1 S-3 I data for significant time. Americal doid cond. 6 6-0.02% the alka assing nor itting more itting more itting more in data for bucil IP ibucil is no pheny of pheny of the property.	Q-2 R-3 S-4 or Question es, the coca cans as a managementation aloid deriver radrenaline or cochol-O-me adrenaline or Question is a cytoto a derivativ il butyric ac	Q-3 R-2 S-1 ns 71 and a leaves to asticator in cocal leaves to a state of the cocal leaves to a state of	y age eave coca iis	Q-1 R-4 S-2 in cocain ent. s vary fr	(B) 0.7-1.5% (D) 9-11%	W or		er St		
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Q.72. Q.73.	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) increa (B) inhibit (D) inhibit Common (A) amin (C) amin (C) amin Identifica 2 M hydromercuric	Q-4 R-1 S-3 I data for significant time America Americ	Q-2 R-3 S-4 or Question es, the cocasans as a macentration aloid derive radrenaline no question is a cytoto a derivativ il butyric aci glycine t prescribed cocadination is a cacid their in- condition is	Q-3 R-2 S-1 ns 71 and a leaves a asticator, in coca lead from coca	rich iy age eave eave eave eave eave eave eave	Q-1 R-4 S-2 in cocain ent. s vary fr	(B) 0.7-1.5% (D) 9-11%  (B) amino phenyl ca (D) diamino dist.	aproic a	cid			
Q.72. Q.73.	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhib (C) inhibi (D) inhibi Chloram (A) amin (C) amin Identifica 2 M hydramercuric (A) yellor (A) yellor (A) yellor (A) yellor (A) and (A) yellor (A) yellor (A) yellor (A) yellor (A) yellor (B) 3-4 % (B)	Q-4 R-1 S-3 I data for sient time. Americal conditions of the alka asing northing cate iting morning and the condition of the phone of	Q-2 R-3 S-4 or Question es, the cocceans as a macentration in a contration in a contration in a contration is a cytoto a derivative in butyric acid glycine in prescribed contration is a cytoto a derivative in the contration is a cytoto a derivative in a cytoto a cytoto in a cytoto a cytoto in a cytoto	Q-3 R-2 S-1 ns 71 and a leaves to a sticator in coca leaves to a sticator	rich iy age eave eave eave eave eave eave eave	Q-1 R-4 S-2 in cocain ent. s vary fr	(B) 0.7-1.5% (D) 9-11%  its by  (B) amino phenyl ca (D) diamino diphenyl drug is extracted with intity of the extract, 0	aproic a yl 10 ml qu 5 ml of	cid uantiti potas			
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Q.72.  Q.73.  Q.74.  Q.75.  St.  Q.76. On (A	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhibit (C) inhibit (D) inhibit (C) inhibit (D) inhibit (C) amin (C) buff (C) buff (C) buff (C) buff (C) buff (C) 0.2 M	Q-4 R-1 S-3 I data for sient time. Americal Americal Americal Americal American Market American Market American Market American Market American Market American Ameri	Q-2 R-3 S-4 or Question es, the cocceans as a micentration in the contraction of the cont	Q-3 R-2 S-1 ns 71 and a leaves to a sticator, in coca leaves to a sticator and the company of th	rich y age y age we we work with a series to the work with a series to	Q-1 R-4 S-2 in cocainent. s vary fri leaves accase g of the complete of ml quayields atting a d s and 77 rral const	(B) 0.7-1.5% (D) 9-11%  (B) amino phenyl ca (D) diamino diphenyl drug is extracted with intity of the extract, 0.3  (B) yellow coloured (D) red coloured precibute acctone solution of (B) 0.1 M hydrochlor (D) 0.1 M silver nitratituents.	aproic a yl 10 ml qu 5 ml of solution cipitate of the dr ric acid te	cid uantiti potas n	ies oj sium		
Q.72.  Q.73.  Q.74.  Q.75.  St.  Q.76. On (A	Since and the South The alkan (A) 3-4 % (C) 0.01 Cocaine, (A) incre. (B) inhibit (C) inhibit (D) inhibit (C) inhibit (D) inhibit (C) amin (C) buff (C) buff (C) buff (C) buff (C) buff (C) 0.2 M	Q-4 R-1 S-3 I data for sient time. Americal Americal Americal Americal American Market American Market American Market American Market American Market American Ameri	Q-2 R-3 S-4 or Question es, the cocceans as a micentration in the contraction of the cont	Q-3 R-2 S-1 ns 71 and a leaves to a sticator, in coca leaves to a sticator and the company of th	rich y age y age we we work with a series to the work with a series to	Q-1 R-4 S-2 in cocainent. s vary fri leaves accase g of the complete of ml quayields atting a d s and 77 rral const	(B) 0.7-1.5% (D) 9-11%  (B) amino phenyl ca (D) diamino diphenyl drug is extracted with intity of the extract, 0.3  (B) yellow coloured (D) red coloured precibute acctone solution of (B) 0.1 M hydrochlor (D) 0.1 M silver nitratituents.	aproic a yl 10 ml qu 5 ml of solution cipitate of the dr ric acid te	cid uantiti potas n	ies oj sium		
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A glycosaminoglycan is f	o	70
A glycosaminoglycan is found in the constant	œ	19

Q.78. An anticoagulant glycosaminoglycan is s found in the granules of mast cells.

(A) Warfarin

(C) Vitamin K

(B) Heparin

Q.79. The anticoagulant selected above acts by

(D) Aspirin

(A) lowering the affinity for free plasminogen

(B) degrading fibrin and fibrinogen

(C) binding to antithrombin III

(D) antagonizing co-factor functions of vitamin K

Statement for Linked Answer Questions 80 & 81

Prazosin, an antihypertensive drug, is prepared as follows: 2,4-dihydroxy-6, 7-dimethoxy quinazoline is treated with POCl<sub>3</sub> / PCl<sub>5</sub>, followed by amidation. The product X is treated with a reagent Y to get Prazosin.

Q.80. The product X is

(A) 4-Amino-3-chloro 6, 7-dimethoxy quinazoline

(B) 2-Chloro-4-amino 6, 7-dimethoxy quinazoline

(C) 4-Amino-2-chlor 6, 7-dimethoxy quinazoline

(D) 4-Amino-6-chlor 2, 7-dimethoxy quinazoline

Q.81. The reagent Y is

(A) 1-(2-Furoyl)-pyridine

(B) 1-(2-Furoyl)-piperazine

(C) 1-(2-PyridyI)-piperazine

(D) l-(2-Furoyl)-pyrimidine

Statement for Linked Answer Questions 82 & 83

The powder of a viscosity builder is dispersed with high shear in 1/5 to 1/3 of the required amount of water pre-heated to 80°C to 90°C. Once the powder is finely dispersed, the volume is made up with ice cold water or ice. Moderate stirring causes prompt dissolution.

Q.82. The powder is

(A) bentonite

(B) sodium carboxymethyl cellulose

(C) veegum

(D) methyl cellulose

Q.83. For obtaining maximum clarity, hydration and viscosity, the above solution should be cooled for about an hour to

(A) 0°C to 10°C

(B) 25°C

(C) 50°C

(D) 35°C

Statement for Linked Answer Questions 84 & 85

 $\epsilon$  and  $A_{1\ cm}^{1\ \%}$  can be interconverted using a formula, from which its molar absorptivity or absorbance can be calculated.

Q.84. The formula is

(A)  $\varepsilon = A_{1 cm}^{1 \%} X \text{ mol. wt/1000}$ (C)  $\varepsilon = A_{1 cm}^{1 \%} X \text{ eq. wt/1000}$ 

(B)  $\varepsilon = A_{1 cm}^{1 \%} X \text{ mol. wt/10}$ (D)  $\varepsilon = A_{1 cm}^{1 \%} X \text{ eq. wt/100}$ 

A compound has a molecular weight of 297; an equivalent weight of 148.5 and an  $A_{1\ cm}^{1\ \%}$  of 742 at 309 nm. Its molar absorptivity is

(A) 220.37

(B) 1101.87

(C) 110.18

(D) 22037.4

## **ANSWER Key – GATE-2007 Pharmaceutical Sciences**

1	2	3	4	5	6	7	8	9	10
D	В	С	D	В	С	В	В	Α	Α
11	12	13	14	15	16	17	18	19	20
В	С	С	В	С	С	С	В	В	Α
21	22	23	24	25	26	27	28	29	30
В	Α	В	С	В	D	D	В	В	D
31	32	33	34	35	36	37	38	39	40
Α	D	В	В	В	В	D	В	С	С
41	42	43	44	45	46	47	48	49	50
В	С	С	Α	Α	D	Α	D	С	В
51	52	53	54	55	56	57	58	59	60
D	В	В	С	Α	В	Α	Α	D	Α
61	62	63	64	65	66	67	68	69	70
Α	С	С	Α	В	В	С	В	Α	Α
71	72	73	74	75	76	77	78	79	80
В	D	Α	С	Α	Α	В	В	С	С
81	82	83	84	85					
В	D	С	В	D					