

GPAT - 2017

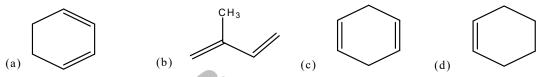
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QUESTIONS PAPER

- 1. In a free radical reaction, free radicals are formed at
 - (a) Initiation step (b) Propagation step
 - (c) Termination step (d) Both (a) and (b)

2.

Which of the following dienes can undergo Diels-Alder reaction most readily



3. Separating techniques such as gas chromatography and liquid chromatography are not appropriate for separation of amino acids. Select correct reason from the following

- (a) Amino acids high polarity substances **DISCUSSION**
- (b) Amino acids are low polarity substances $E \ N \ T \ E \ R$
- (c) Amino acids are non polar substances
- (d) Amino acids lowly charges substances
- 4. When trans-2-butene is treated with bromine an anti-addition of bromine yields meso- 2,3- dibromobutane. Select the correct statement regarding the reaction from the following
 - (a) The reaction is stereoselective as well as stereo specific
 - (b) The reaction is stereoselective and not stereo specific
 - (c) The reaction is nonstereoselective as well as non stereo specific
 - (d) The reaction is stereo specific and not stereo selection
- 5. Reduction of imines to give amines in protic solvents can be carried out by one of the following reagents. Select the correct reagent
 - (a) Sodium hydride
 - (b) Sodium chloride and HCl
 - (c) Lithium aluminium chloride
 - (d) Sodium cyanoborohydride

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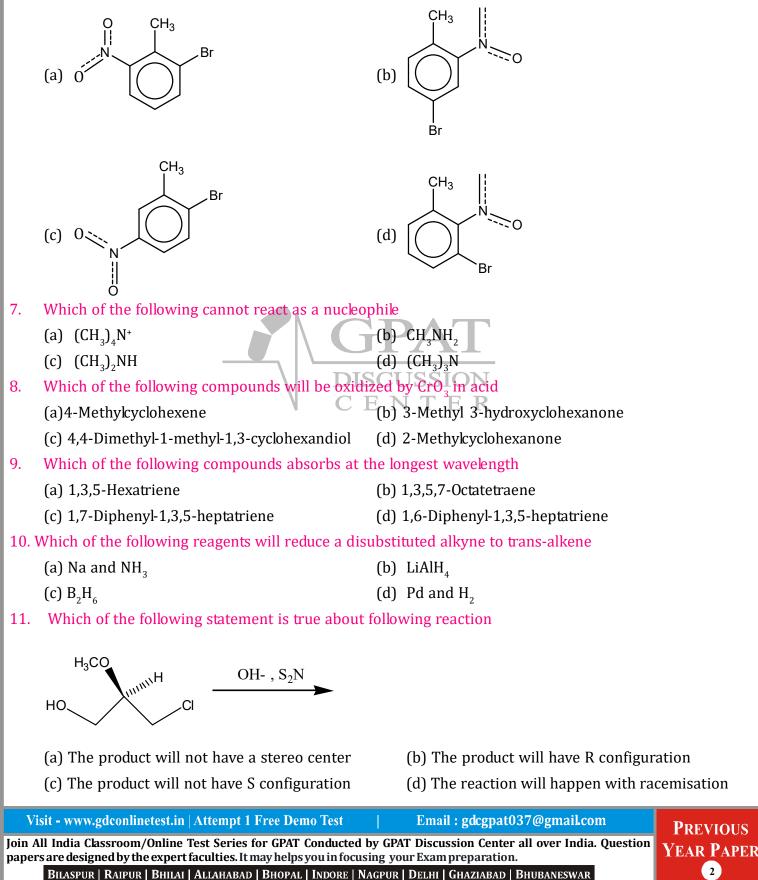
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6. In the reaction of 2-nitrotoluene with bromine in presence of iron, which of the product shownbelow is the most abundant (major) product



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12.	12. Which functional group is present in the molecule shown below							
			\bigcirc					
	(a) Amide	(b) Alcohol	(c) E	Ester	(d) Ether			
13.	Match the following agen	its that cause can	cer with the pre	eferable sites fo	r where it might	cause		
	1. Arsenic		(a) I	Prostate				
	2. Benzene		(b) <i>.</i>	Angiosarcoma				
	3. Cadmium Compounds		(c) L	.eukemia				
	4. Vinyl chloride		(d) 1	Hemangiosarco	oma			
	(a) 1 - d; 2 - c; 3 - a; 4 -b		(b) 2	1 - b; 2 - a; 3 - c	;; 4- d			
	(c) 1 - c; 2 - d; 3 - b;4 - a		(d) 1	1 - a; 2 - b; 3 -d;	; 4 - c			
14.	If the pKa of lidocaine is	7.9 and pH of th	e infected tissue	e is 8.9, the frac	ction of drug in tl	ne ionized form		
	will be							
	(a) 10%	(b) 1%		0%	(d) 99%			
15.	Which among the follow	ing are the salier	it features of Glu	cocorticoids				
	(a) Gets combined with highly specific cytosolic glucocorticoids							
	(b) They promote phage	ocytosis by macr	ophages					
	(c) Releases of lytic enzy	ymes						
	(d) Increases lipid eicos	anoids and prost	aglandin gene					
16.	The most commonly used		-	-				
	(a) Kirby- Bauer technic	ques		Immunodiffusi	-			
	(c) Qudin procedure		(d)	Ouchter- Ion	procedure			
17.	Bulk product is defined a							
	(a) Product completing a		es but not nece	ssarily final pac	cking			
	(b) A product ready for f	•	an an form					
	(c) Raw material used fo(d) A defined quantity of	-	-	zh				
18.	Product,and Promoti			,11				
10.	(a) Price and Place		C	Place				
	(c) Process				ocess, Price, Prod	uction		
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19.	Insulin and thyroxin arrive at an organ / tissue / cell at the same time. Thyroxine causes an effect on the					
	organ but insulin does not because					
	(a) The organ cell have receptors for thyroxine but not for insulin					
	(b) Thyroxin is a lipid -soluble hormone and insulin					
	(c) The target cell in the organ have up-regulated for					
	(d) Thyroxin is local hormone and insulin is a circula					
20.	Which among the following is an incorrect statement with regard to the drug Dantrolene					
	(a) It is a pyrazoline derivative (b) It is an imidazoline analogue					
	(c)It is a nitrophenylfurfurylidene derivative (d)It is a skeletal muscle relaxant					
21.	Diazepam is not suitable for peroral sustained release form since					
	(a) Is not absorbed in lower intestine					
	(b) It has biological half life greater than twelve effects hour					
	(c) It has biological half life less than one hour					
	(d) It has undesirable side effects					
22.	Antioxidant used as blocking agent in sterile product is					
	(a) Ascorbic acid esters (b) Sodium bisulphate					
	(c) Ascorbic acid D(d) EDTASSION					
23.	Many mediators have been implicated in the asthmatic response. The clinical efficacyof pharmacologic					
	intervention with inhibitors or antagonist of the mediators involves following category - except					
	(a) Platelet activating factors(b) Anticholinergics					
	(c) Antihistaminics (d) Cytokine inhibitors					
24.						
	 (1) Epinephrine (a) More alpha 1, no beta 1, beta 2 & dopamine (b) More alpha 1 %, beta 1, beta 2, no dopamine 					
	 (2) Noradreanline (b) More alpha 1 & beta 1, less beta 2, no dopamine (c) More beta 1 & Pata 2, no alpha 1 and dopamino 					
	 (3) Phenylephrine (c) More beta 1 & Beta 2, no alpha 1 and dopamine (d) More alpha 1 & beta 1, no beta 2 & dopamine 					
	 (4) Dobutamine (a) a - 2; b - 4; c - 1; d -3 (b) a - 1; b - 3; c - 4; d - 2 					
	(a) a - 2; b - 4; c - 1; d - 3 (b) a - 1; b - 3; c - 4; d - 2 (c) a - 3; b - 1; c - 2; d - 4 (d) a - 4; b - 2; c - 3; d - 1					
25.	If the drug substance has been substituted wholly or in part by another drug or substance, it is called as					
23.	(a) Spurious drug (b) Adulterated drug (c) Misbranded drug (d) Mixed drug					
26.	One of the principle upon which HPLC detector functions is					
20.	(a) Redox property of solute is the basis for functioning of Electrochemical detectors					
	(b) Fluorimetric detector has high selectivity and low sensitivity					
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	(c) Small difference in Refractive Index of mobile phase permit precise measurements in					
	Refractive index detectors					
	(d) UV detector function based on its ability to detector					
27.	Methanolic extract of a crude drug powder when treated with magensium turnings and concentrated					
	hydrochloric acid turned the solution magenta coloured. The test is termed as					
	(a) Shinodatest (b) Van Urk's Test					
	(c) Keller Killiani test (d) Vitali Morin Test					
28.	Etoposide and Teniposide are the semisynthetic derivatives of					
	(a) Myrrhabolic acid (b) Podophyllotoxin					
	(c) Abietic acid (d) Umbelliferone					
29.	The thymus secretes several hormones related to the immunity. These hormones promote the					
	maturation of T lymphocyte cells. These hormones are					
	1. Thymosin					
	2. Thymichumoral factor					
	3. Thymic factor 4. Interleukins					
	4. Interleukins					
	(a) Only 1, 2 (b) 1, 2 and 3 (c) Sonly 3 SIC(d) Only 4					
30.	For the measurement of particle size of powders, the distance measured between two tangents on					
	opposite sides of the particle parallel to some fixed direction is called					
	(a) Feret diameter (b) Martin diameter					
	(c) Projected area diameter (d) Edmundson diameter					
31.	Beta oxidation of fatty acids takes place in					
	(a) Mitochondria (b) Cytoplasm					
	(c) Nucleus (d) Choroplast					
32.	Which of the following genera is not the source for tropane alkaloids					
	(a) Datura (b) Duboisia					
	(c) Nicotiana (d) Atropa					
33.	The useful variable from in vitro dissolution test data for IVIVC includes					
	(a) t50 % - t63.2 (b) Sampling interval					
	(c) Sample volume (d) Volume of dissolution fluid					
34.	In respect of female reproductive cycle, which of the following statements are correct					
	1. The female reproductive cycle consists of menstrual phase, a pre-ovulatory phase, ovulation and a post					
	ovulatory phase					
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	2.	During the menstru			y follicles in the ovary begin to enlargewh	ile the uterus is
		shedding its lining				
	3.	During the pre-ovu	latory phase, a dom	inan	t follicle continues to grow and begins to	secret estrogen
		and inhibin while t	he uterine lining beg	gins t	o rebuild	
	4.	Ovulation results in	the release of an ovu	ım ar	nd the shedding of the uterus lining tonour	ish and support
		the release ovum				
	5.	After ovulation, a c	orpus luteum forms	the	ruptured follicles and begins to secretepr	ogesterone and
		estrogen, which it v	<i>w</i> ill continue to do th	irou	ghout pregnancy if the eggis fertilized	
	6.	If pregnancy does n	ot occur, then the cc	rpus	s luteum degenerates into a scar knownas	corpus albicans
		and uterine lining	is prepared to be sh	ed ag	gain	
	(a)	1, 2, 3 and 6		(b)	2, 3, 4and 6	
		1, 2, 4 and 5			1, 4, 5 and 6	
35.				_	est in case of the drug with % plasmap	protein binding
26		,	b) 89		$\begin{bmatrix} 50 \\ c \end{bmatrix} \begin{bmatrix} (d) & 68 \\ c \end{bmatrix}$	1 . 1
36.		_			an oral CR dosage form, USP hasincluded	which sampling
			b) 0.25D	112	s normal dosing interval 50-1.0D (d) 1.0-2.0D	
37.		,			ebral hemisphere is true	
		C	emisphere are symm		•	
	(b)	This right more imp	portant for spoken a	nd w	ritten language	
	(c)	The left hemisphere	is more important f	or m	usical and artistic awareness	
	(d)	Hemispheric lateral	ization is more pron	ound	ced in male than in female	
38.	Wh	ich among the follow	wing is a Class-I met	hod,	used for rendering a solution of drug iso	tonic with body
	fluio		_			
		Cryoscopic method	l	. ,	White-Vincent method	
20	(c)	Sprowlsmethod	* Adult Dese - Child de		Hammarlund method	
39.	-	Youngs formula	Adult Dose = Child do		he above formula is known as in Pose Dillings formula	Jiogy
	(a) (c)	Clarkes formula			Frieds formula	
40.			meter obtained by n		scopic method of evaluation is	
		Projected diameter	-		Surface –volume diameter	
	. ,	Volume - surface d			Stokes diameter	
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41.	Naphazoline						
	(a) Is used for relief of nasal congestion						
	(b) Exhibits peripheral beta-adrenoceptor stimulant						
	(c) Is a pyrazolinederivative						
	(d) Chemically, is 1H Imidazole, 3,4 -dihydro- 2 –(3-naphthylmethyl) monohydrochloride						
42.	A patient receiving warfarin develops rheumatoid arthritis. Which one of the following drugs would be						
	Contraindicated						
	(a) Ibuprofen (b) Tolmetin (c) Aurothioglucose (d) Aspirin						
43.	A crude drug powder was heated with ferric chloride, water and concentrated hydrochloric acid followed						
	by extraction with chloroform. The chloroform layer was treated with ammonia, the ammonical layer						
	turned pink. The test indicates presence of phytoconstitutent						
	(a) Anthraquinone-C-glycosides (b) Flavanones						
	(c) Cardiac glycosides (d) Saponin glycosides						
11	The first vaccine was discovered by						
44.							
45.	(a) DeBary (b) Paul Ehrlich (c) Robert Koch (d) Edward Jenner Type IV dissolution apparatus as per USP is ISCUSSION						
т.	(a) Flow through cell (b) Paddle type apparatus R						
	(c) Reciprocating cylinder (d) Paddle over dsk apparatus						
46.	Hoeppler viscometer is a type of						
	(a) Falling sphere viscometer (b) Capillary viscometer						
	(c) Cup and Bob viscometer (d) Cone and plate viscometer						
47.	Following are the list of various inherited metabolic disorders that can affect functioning of liver						
	a. Primary biliary cirrhosis						
	b. Glycogen storage disease						
	c. Gilbert's syndrome						
	d. Haemochromatosis						
	e. Wilson's disease						
	(a) a, b, c, d (b) b, c, d, e (c) a, c, d, e (d) a, b, d, e						
48.	In relation to buccal and sublingual route of administration which of the following statement is incorrect						
	(a) Absorption through epithelium is not affected by partition coefficient of the Drug						
	(b) Drug absorption by these routes by pass first pass metabolism						
	(c) There is an optimum log P for sublingual absorption						
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	(d) These are preferred routes for anti-anginal drug					
49.	Which among the following statements describing surface activity for surfactants is incorrect					
	(a) Increase in length of hydrocarbon chain decreases surface activity					
	(b) Increase in ethylene oxide chain of polyoxy ethyl alcohol Increase in surface activity					
	(c) Increase in surface activity results in decrease length of hydrocarbon chain					
	(d) Relationship between hydrocarbon chain length andhydrphobicity					
50.	Surface tension is categorized as a/an factor					
	(a) Capacity (b) Intensive (c) Extensive (d) Tolerance					
51.	Which of the following gums is obtained from endosperm					
	(a) Guar gum (b) Acacia gum (c) Tragacanth gum (d) Sterculia gum					
52.	High lightening differences among brands within the same product category is					
	(a) Product brand (b) Brand launch (c) Product differentiation (d) Branding					
53.	Hot stage microscopy is an important tool in preformulation studies for the study of					
	(a) Pseudopolymorphism (b) Paricle size measurement					
	(c) Microbial contamination (d) Compaction behaviour					
54.	In Bismuth subgallate suppositories B.P.C, when no strength of the drug is specified, B.P.C directs					
	bismuth subgallate per suppository DISCUSSION					
	(a) 300 mg (b) 200 mg (c) 100 mg E R (d) 400 mg					
55.	The Michaehis-Menten hypothesis					
	(a) Postulates the formation of an enzymesubstrate complex					
	(b) Enables us to calculate the isoelectric point of an enzyme					
	(c) States that the rate of a chemical reaction maybe independent of substrate concentration					
	(d) States that the reaction rate is proportional tosubstrate concentration					
56.	The largest gene in human is					
	(a) Dystrophin (b) Titin (c) Insulin (d) Phosphofructokinase					
57.	Which of the following techniques is not useful to detect polymorphs					
	(a) DSC (b) HPLC (c) PXRD (d) Melting point determination					
58.	Which of the following constituents is responsible for colour of shellac					
	(a) Shelloic acid (b) Laccaic acid (c) Aleurotic acid (d) All of the above					
59.	Match the following drugs with alteration they produces in structural-functional of kidney					
	(1) Aminoglycoside Anitibiotics (A) Glomerular abnormality					
	(2) ACE inhibitors (B) Tubalar epithelial cell Demage					
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	(3) Methotrxate	(C) Hemodynamic Mediated kidney injury	
	(4) NSAIDs	(D) Obstructure nephrophathy	
	(a) 1 - B; 2 -C ; 3 - D; 4	4 -A (b) 1 - A; 2-B; 3 - C; 4- D	
	(c) 1 - C; 2-D; 3 - A; 4-	- B (d) 1 - D; 2-A; 3 - B; 4- C	
60.	Hixon Crowell's cube r	root law of dissolution states that	
	(a) There is a change	in particle size and surface area during dissolution of drug	
	(b) Dissolution proces	ss is controlled by diffusion of molecules/ions	
	(c) High free energy of	of activation is required for solution	
	(d) Renewal of surface	e fluid layer around drug particle	
61.	All of the following staten	nents regarding estrogen therapy in postmenopausal women are true EXC	EPT
	(a) It restores the loss	s of bone mass due to osteoporosis	
	(b) It may be useful to	o treat vasomotor symptoms	
	(c) Administration in a	a regimen including a progestin	
	(d) It is useful in the t	reatment of atrophic vaginities	
62.	Chapter IV of which lav	w states that experiments on animals are avoided wherever it is poss	sible to do so; as
		al schools, hospitals, colleges and the like, if other teaching devices	
		ike, may equally suffi <mark>ce. Also, that experiments</mark> on larger animals are a	
	is possible to achieve t	the same results by experiments upon small laboratory animals lik	ke guinea- pigs,
	rabbits, frogs and rats		
	(a) The prevention of	cruelty to animal act,1960	
	(b) The Pharmacy Act	t, 1948	
	(c) Drugs and Cosmet		
		let Preparations Act, 1955	
63.	C	wing rules about spin - spin coupling and bond multiplicities are corr	ect with regard
	to NMR spectra		
		rarely exceeds 20 cps whilechemical shifts are over 1000 cps	
		ctions are dependent of strength of the applied field	
		s increase with distance	
		nteract with each other to show interaction	
64.	•	nism for developing bacterial resistance to sulphonamides is	
		tabolic pathway for synthesis of essential	
	(b) An increasing capa	acity to metabolize the drug	
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	(c) Increased antagonism of drug						
	(d) An alteration in enzyme that utilizes PABA						
65.	All the dopaminergic agonists having affinity for D2 receptors are clinically used in following						
	conditions except						
	(a) Obsessive-compulsive disorder						
	(b) Hyperprolactinemia						
	(c) Acromegaly						
	(d) Parkinsonism						
66.	The labelling instruction "To be diluted 20 times its volume with water" indicates the dispensed						
	product is a						
	(a) Mixture (b) Elixir (c) Linctus (d) Mouthwash						
67.	Which among the following is a structural variant of GABA and is used as a muscle relaxant						
	(a) Metocurine (b) Tybamate (c) Baclofen (d) Cyclobenzaprine						
68.	A steroidal phyto constituent lowering blood sugar is obtained from						
	(a) Momordica charantia (b) Quillaja saponaria						
	(c) Dioscorea deltoidea (d) Glycyrrhiza glabra						
69.	Which of the following drug is associated with the reaction of extreme photosensitivity						
	(a) Niacin (b) Digitalis C E(c) Tetracycline (d) Fluoroquinolones						
70.). Which among the following statements related to Ceric sulphate as oxidizing agent, as titrant are correct						
	(a) Ce (IV) during reaction exists as an anionic complex in media of sulphuric acid						
	(b) Ionic equation is $Ce^{3+} \rightarrow Ce^{2+} + e^{-}$						
	(c) Formal potential of Ce(III) Ce (II) couple is 1						
	(d) Ce (IV) does not permit use of HCl as reducing media						
71.	A labeled piece of DNA that is complementary to the sequence of DNA you are interested in, say the gene						
	you are trying to put into cells, is called as						
	(a) A probe (b) A receptor (c) A epitope (d) A target						
72.	As per first schedule of Drugs and Cosmetics Act ,1940, following is name of the book under Siddha system						
	of medicine						
	(a) Arka Prakasha (b) Yog Ratnakar (c) Nagamuni (d) Vrinda Chikitsa						
73.	Amantidine is helpful in Parkinson's disease because						
	(a) It liberates dopamine from nerve endings (b) It decreases cholinergic activity						
	(c) It is metabolized into dopamine (d) It increases adrenergic activity						
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74. An intermediate 3- Chloroaniline 4, 6 - disulphonamide on heating with formic acid yields a compound						
(a) 6 chloro 2H -1,2,4benzothiadiazine 7 sulphonamide						
 (b) 3 chloro-2H 1,2,4- benzothiadiazine 7 sulphonamide (c) Used in treatment of urinary tract infections (d) Used as antihestorial 						
75. Acetyl Choline is hydrolyzed by enzyme						
(a) Acetylase (b) Cholinase (c) Acetylcholinesterase (d) Transfer	rase					
76. Rubella virus is associated with disease						
(a) Progressive encephalitis (b) Enterovirus infection						
(c) Yellow fever (d) Brucellosis						
77. Which among the following electronic systems are not involved in the origin of UV spec	trum					
 (a) s and p shell electrons (b) sigma and pi electrons (c) Charge transfer electrons (d) d and f shell electrons 						
(c) Charge transfer electrons(d) d and f shell electrons						
78. Which of the following is not a thermoplastic resin(a) Phenolic plastic resin(b) Polystyrene						
 (c) Polyethylene (d) Polypropylene 79. Choose the right combination from the following CUSSION (1) Diacytic stomata and sessile Trichome C E N T E (A) Datuar 						
						(2) Paracytic stomata and Unicellular and multi cellular (B) Vasaka
(3) Anomocytic stomata and Unicellular and multi cellular (C) Senna						
Trichome						
(4) Anisocytic stomata and Multicellular covering trichome (D) Digitalis						
(a) 1-B, 2-C, 3-D, 4-A (b) 1-C, 2-D, 3-A, 4-B						
(c) 1-A, 2-D, 3-B, 4-C (d) 1-D, 2-B, 3-A, 4-C						
80. Pharmaceutical alternatives possess						
(a) Indentical therapeutic moiety/precursor but not in the same amount/dosage form						
(b) Same amount of therapeutic molety						
(c) Same dosage form						
(d) Same formulation ingredients in exactly same amount of dose						
81. Topical application of timolol to the eye would be expected to induce which of the follow	wing					
(a) Decreased formation of aqueous humor (b) Miosis						
(c) Mydriasis (d) Increased outflow of aqu	eous humor					
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82.	The major component of liquid glucose isand is prepared from						
	(a) Maltose, Pectin (b) Dextrin, Starch (c) Dextrose, Starch (d) Glucose, Starch						
83.	Which of the following formulations under ASU system are offered infinite period of shelf life in D a	nd					
	C Act						
	(a) Asava&Arishta (b) Churna (c) Ghutika (d) Kwatha						
84.	Which of the following is an example of hemiesters anionic surfactant for pharmaceutrical emulsions						
05	(a) Sulfosuccinates (b) Sarcosinates (c) Taurates (d) Lactylates						
85.	The major differences between the prokaryotic and eukaryotic protein synthesis mechanisms are in whi part of the process	ich					
	(a) The initiation of synthesis (b) The chain elongation process						
	(c) The chain termination process (d) None of the above						
86.	In DNA replication the newly added nucleotide is joined to the growing DNA strand by an enzyment of the provide the growing DNA strand by an enzyment of the provide the growing DNA strand by an enzyment of the growing DNA strand by an enzymen	me					
	(a) DNA polymerase(b) DNA ligase(c) Restriction endonuclease(d) Reverse transcriptase						
87.	Glycosides are condensation products of						
	(a) Protein + aglycone (b) Sugar + Protein						
	(c) Sugar + aglycone (d) Fats + aglycone						
88.	Which of the following dosage form of digoxin will provide greater bioavailability based onvalue of F						
	(a) F equals 1.0 (b) F equals 0.32 (c) F equals 0.62 R (d) F equals 0.77						
89.							
	hemopoiesis the stem cells are converted in to myeloid stem cell and subsequently differentiated and are						
	developed into precursor cells. Match the following precursor cells with the formed elements of blo	od					
	from which they are formed.						
	(1) Reticulocyte (A) Platelets						
	(2) Megakaryoblast (B) Macrophages						
	(3) Myeloblast (C) Erythrocytes						
	(4) Monoblast (D) Neutrophils						
	(a) 1-C, 2-A, 3-D, 4-B (b) 1-A, 2-C, 3-B, 4-D						
	(c) 1-B, 2-D, 3-C, 4-A (d) 1-D, 2-B, 3-A, 4-C						
90.	Using Young's rule, calculate the dose for a 5 year old child if the adult dose is 340mg						
01	(a) 200 mg (b) 100 mg (c) 400 mg (d) 800 mg						
91.	Which among the following statements on electro analytical methods are correct						
	 (a) Measures conductance between two electrodes with AC powered Wheatstone bridge (b) Polyrography involves plotting of conductance voltage 						
(b) Polarography involves plotting of conductance – voltage							
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	(c) Potentiometry involves application of Ilkovicequation					
	(d) Coulometry involving application of Nernst law relating equivalence between quantity of electricity					
	passed and amount of compound generated at electrodes					
92.	Chemical interferences are common than spectral interferences due to					
	(a) Formation of compounds of low volatility (b) Ionization in flames					
	(c) Increase in rate of atomization (d) No shift in ionization equilibrium					
93.	Phase 0 studies means					
	(a) In vitro studies					
	(b) Part of phase I studies of clinical trials					
	(c) First in human microdosing studies					
	(d) Studies carried out on small number of animals					
94.	Condensation product of Ethyl isopentyl ester of diethyl malonic acid with urea and sodium ethoxide yields					
	(a) Amylobarbitone (b) Phenobarbitone					
	(c) Pentobarbitone (d) Quinobarbitone					
95.	Clavulanic acid is					
	(a) Inactivates bacterial - lactamase (b) Protien inhibitor of peptidoglycan synthesis					
	(c) Specific for gram negative bacteria (d) Inhibitor of 50S ribosomal subunit					
96.	The method by which different constituents of a liquid mixture can be separated without decomposition					
	of the constituents is					
	(a) Distillation under reduced pressure (b) Molecular distillation					
	(c) Steam distillation(d) Fractional distillation					
97.	The preferred rheological behavior of Pharmaceutical suspensions is that of					
	(a) Pseudoplasticity and thixotrophy (b) Pseudoplasticity					
	(c) Dilatancy and thixotrophy (d) Pseudoplasticity and rheopexy,					
98.	An inventory turnover ofa year is considered satisfactory					
	(a) Four to six times, Six (b) To eight times					
	(c) One to two times (d) None of the above					
99.	The number of glucopyranose units in the structure of alpha cyclodextrins are					
	(a) 8 (b) 9 (c) 7 (d) 6					
100.	The compound 2 - (Diethylamino) ethyl [bicyclohexyl] - 1-carboxylate hydrochloride is					
	(a) Dicycloverine (b) Diphenhydramine					
	(c) Both nicotinic and specific antispasmodic, (d) Diagonistic agent for diagnosis of thyroid gland,					
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		0 01					
101. In new product development process, after analysis of business next step to be taken is							
(a) Test marketing		tion marketing					
(c) Brand marketing(d) Individual marketing102. Which of the following alkaloid (form) is used to treat migrane							
(a) VInca (b) (Ergot	(d) Belladonna				
103. Free flowing powders show		8					
(a) Smaller angle of repose			se,				
(c) Intermediate angle of r			,				
104. The WIPO is the specialized			notes protection of	throghout the			
world							
(a) Intellectual properties	(b) Wo	orld properties					
(c) Pharmaceutical organi	zations (d) Fin	ace companies					
105. Herpesviruses are large e	ncapsulated viruse	s that have doub	le stranded DNA genon	ne thatencodes			
approximately 70 proteins.	It causes acute infe	ction followed by k	atent infection in which	virus persist in			
noninfectious form with per	riodic reactivation a	nd shedding of infe	ctious virus. Following a	re the examples			
of such herpesvirus –excep			-				
(a) Epstein-Barr Virus		rpessimplexON					
(c) Varicella Zoster		omegalovirus R					
106. A fatty acid not synthesized							
	b) Oleic acid	(c) Palmitic acid	(d) linoler	nic acid			
107. Chemical class of drugs that							
	b) Lactam	(c) Sterols	(d) Carba	mates			
108. The only analgesic acting ce (a) Methadone (b) Naloxane	(c) Tramadol	(d) Nalay	220			
109. Neuropathy is adverse effe			(d) Nalox	alle			
	b) Ethambutol	(c) Pyrazinamide	(d) Dapso	ne			
110. As per I.P. if the solubility ra							
	b) Freely soluble	(c) Sparingly solu		lv soluble			
111. SDS is used in PAGE of a mix				-			
is used to	•	•		•			
(a) Have uniform charge d	ensity on the protei	ns (b) Stabilize	the proteins				
(c) Decrease the surface t	ension of buffer	(d) Solubiliz	e the proteins				
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112. Indicate which of the following statements is true								
(a) A weakly acidic drug is unionised when pH of the solution is at last 2 pH units below its pKa								
(b) Acidic drugs are noninonized at pH 9								
(c) Acidic drugs are less soluble in alkaline solution								
(d) The higher the pKaof a weak acid, the stronger is acid								
113. Dissemination of cancer occurs through one of the following pathway - except								
(a) Migration (b) Direct seeding (c) Lymphatic spread (d) Hematogenous spread								
114. Which of the following alkaloids has hypotensive activity								
(a) Emetine (b) Quinine (c) Reserpine (d) Papaverine								
115. Which of the following is a characteristic of cytochrome P-450								
(a) Catalyzes aromatic and aliphatic hydroxylations								
(b) Located in the lipophilic environment of mitochondrial membrane								
(c) Catalyzes O-, S-, N methylation reactions								
(d) Catalyzes conjugation reactions								
116. The Michalis-Menten equation for standard for saturated active transport system is-								
(a) $V_{max} = k_{cat}[E_0]$ (b) $V_{max} = k_m$ (c) $V_{max} = k_m[S]$ (d) None								
117. Which among the following describe the characteristic features of Tetracyline								
(a) Undergoes epimerization in solutions having intermediate pH range								
(b) Forms Anhydroustetracycline in presence of acidic								
(c) Forms Minocycline in basic medium								
(d) Forms stable chelate complexes with potassium ions								
118. Cells that contribute for immune system are								
1. T Lymphocytes								
2. Eosinophil								
3. B Lymphocytes								
4. Dendritic cells								
5. Erythrocytes								
6. Natural killer cells								
(a) 1, 3, 4 and 6 (b) 1, 2, 4 and 6								
(c) 1, 3, 5 and 6 (d) 1, 2, 5 and 6								
119. Dielectric constant of Ethanol at room temperature is almost equal to								
(a) 24 (b) 48 (c) 54 (d) 72								
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 120. Foaming during liquid filling can be reduced by following ways, except (a) Increase in speed of the filling line (b) Minimised product turbulence (c) Closed system filling (d) Defoaming device 121. If the excitation energy of the resonance level is 2.10 eV (when hc=12,330) then the wave-lengthof resonance line of sodium atoms is
resonance line of sodium atoms is (a) 577.2 nm (b) 587.2 nm (c) 567.2 nm (d) 597.2 nm
 122. After vascular injury, platelets encounter extracellular matrix constituents such as collagen and adhesive glycoprotein. On contact with these proteins platelets undergo 1. Adhesion 2. Secretion 3. Aggregation 4. Degradation
(a) 1, 2 and 3 (b) 1, 2 and 4 (c) 1, 2, 3 and 4 (d) 1, 2 and 4
 123. A reporting relationship in which an employee receives orders from, and reports to, only one supervisor is known as
(a) Uric acid (b) Urea (c) Purine oxide (d) Xanthine
125. Which of the following adverse effects is caused by thioridazine (a) Tardive dyskinesia (b) Constipation (c) Orthostatic hypotension (d) All of the above End of paper
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11-a	12-d	13 - a	14-с	15-a	16-a	17-a	18-a	19-b	20-a
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41-a	42-d	43-a	44 - d	45 - a	46-a	47-b	48-a	49-a	50-b
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91-a	92-a	93-с	94 - a	95 - a	96-b	97-a	98-a	99-d	100-a
101-a	102-с	103-a	104-a	105-a	106-d	107-с	108-a	109-a	110-с
111-a	112-a	113-a	114-с	115-а	116-a	117-a	118-a	119-a	120-a
121-b	122-a	123-a	124-a	125-d					

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