

click to campus

GPAT 2013 Question Paper with Answer Key

Graduate Pharmacy Aptitude Test conducted by NBEMS

Download GPAT Previous Year Question Papers & Syllabus - Click Here

GPAT QUESTION PAPER 2013 WITH ANSWER KEY

GPAT QUESTIONS

1.	Heckel's plot represents		
	(a) Extent of plastic and elastic deformation	of material during compaction	n
	(b) Force-time of force-displacement relation	nship	
	(c) Pressure-porosity (volume) relationship)	
	(d) Stress relaxation measurements		
2.	Which of the following would cause increas	e in the binding strength at	the dry granulation process in
	significant degree		
	(a) Carboxymethylamylopectiglycolate	(b) Macrogol 4000	
	(c) Magnesium Stearate	(d) Lactose	
3.	The correct statements concerning concertat	ion microencapsulation	
	(1) Concertation always leads to monophasi	c microcapsule	
	(2) When the gelatin is used for microcapsu	ıle's wall material, the concert	ation is bound to happen
	(3) Only gelatin can be used for microcapsu	le's wall	
	(4) Simple or compound concertation can b	e distinguished according to	the number of macromolecular
	colloids taking part in the process		
	(5) The pH conditions of the system and the	solubility of the auxiliary mat	erials do not have any effect on
	the preparation of the microcapsule		
	(a) Only 1 and 4 are correct	(b) Only 2 and 3 are	correct
	(c) Only 1 and 5 are correct	(d) Only 2 and 4 are	correct
4.	Cyclohexanone exhibits only peaks	s in 13CNMR spectrum due to	symmetry
	(a) 2 (b) 3	(c) 4	(d) 5
5.	If an organic compound does not absorb	UV visible radiation it mean:	s compound does not contair
	(a) Single bond	(b) Sigma bond	
	(c) Conjugated double bond	(d) Dative bond	
6.	The positively polarized carbon atom of a ca	rbonyl group acts as	
	(a) An electrophile and a lewis base	(b) A nucleophile and	d a lewis acid
	(c) A nucleophile and a lewis base	(d) An electrophile a	nd a lewis acid
7.	The Pinene hydrochloride rearranged into b	ornylterpenoid is called as	
	(a) Wagner-Meerwein rearrangement	(b) A nucleophile an	d a lewis acid
	(c) Fries rearrangements	(d) Backmann rearr	
8.	The mouse model for type I diabetes mellitus		-
	(a) NZB mouse	(b) SCID mouse	
	(c) Nude mouse	(d) NOD mouse	

9.	Cholesterol contributor	s to Of the l	biological	membrane		
	(a) Rigidity		(b)	Fluidity		
	(c) Permeability		(d)	Osmolality		
10.	Active site for all serin	e proteases consists of wl	nich triad			
	(a) Ser-Glu-Asp		(b)	Ser-Glu-Met		
	(c) Ser-His-Asp		(d)	Ala-Glu-Met		
11.	, Anthelmir	ntics having Immunosupp	ressant a	ctivity.		
	(a) Piperazine	(b) Levamisole	(c)	Ivermectin	(d) Niclosamide	
12.	Which of the following	is selective $\alpha 2$ selective a	ntagonist			
	(a) Clonidine		(b)	Prozocin		
	(c) Phentalamine		(d)	Yohimbine		
13.	Which one of the follow	ving in NOT a protoplast	fusion age	ent		
	(a) Incacitivated Senda	ai Virus	(b)	Ca** at alkaline j	рН	
	(c) Polythelen glycol		(d)	Coltchicine		
14.	Clinically used Labetok	ol is				
	(a) S, S	(b) R, R	(c)	R, S	(d) S, R	
15.	For intramuscular injec	tion, angle of administrat	ion is	Degree		
	(a) 30	(b) 45	(c)	60	(d) 90	
16.	Aromatase is an enzyn	ne complex that is the tar	get for se	everal anticance	r drugs. Which of the follov	ving
	anticancer drugs target	ts aromatase				
	(a) Cyptoteraone acet	ate	(b)	Reloxifene		
	(c) Aminoglutethimide	:	(d)	Testosterone pi	ropionate	
17.	Vinca alkaloids that ar	e used in combination tl	herapy to	treat a variety	of tumors. How to cancer	cells
	normally gain resistant	ce to these agents				
	(a) Mutation of the tar	rget structure				
	(b) Overexpression of	the carrier protein called	l P- glycop	protein		
	(c) Increased metabol	ism of the drug				
	(d) Decreased ability	of the drug to enter target	cells			
18.	A set of closely related	genes of generic markers	that are i	inherited as a si	ngle unit is	
	(a) Cistron	(b) Gene families	(c)	Haplotype	(d) Haploid	
19.	Ginseng saponins belo	ng to the series of				
	(a) Lupane	(d) Brsane		Oleanane	(d) Dammrane	
20.	Stokes Einstein equation	on to the series of				
	(a) Enegy changes in S	Sedimentaition suspensio	n setting			
	(b) Sedimetation of su	spention				
	(c) Diffusion coefficient	nt				
	(d) Coefficient of ener	gy consumption				
21.	The source of radiation	n for FAR IR spectrometer	r is			
	(a) Golay cell		(b)	Nernst glower	and globar	
	(c) Mercury lamp		(d)	Highly heated t	ungsten filament	

22.	. Which of the following alkaloids derived from lysin	e	
	(a) Emtin	(b) Cinchonidin	
	(c) Brucin	(d) Lobelin	
23.	. The agent that can only be given intravenously for	heart failure is	
	(a) Digoxin	(b) Amiodarone	
	(c) Quinidine	(d) Dobutamine	
24.	. A prescription order for an antibiotic preparation	includes the direction	ns 'ii gtt AU q.i.d" what auxiliary
	label should be affixed to the prescription order co	ntainer	
	(a) Take with meals	(b) For the eye	
	(c) For rectal use	(d) For the ear	
25.	. Which one of the following amino acid residues is s	pecifically recognized	by chymotrypsin during peptide
	bond cleavage		
	(a) Phe (b) Leu	(c) Val	(d) Asp
26.	. Which of the following criteria should be consider	red when reviewing	a medication for addition to the
	hospital formulary		
	(a) The amount of samples provided to hospital pl	nysicians	
	(b) Research funds donated to the hospital by the	pharmaceutical comp	pany
	(c) National adverse drug reaction reports		
	(d) Whether is a gluten-free oral formulation		
27.	. Identify the GABA reuptake inhibitor		
	(a) Progabide (b) Tigabine	(c) Bicuculline	(d) Baclofen
28.			orain-blood barrier
	(a) High lipid solubility of a drug http://www.xam	istudy.com	
	(b) High endocytosis degree in a brain capillary		
	(c) Absence of pores in the brain capillary endother	elium	
	(d) Meningitis		
29.	Reynold's number is given by		
	(a) Re = $\mu/\rho vD$	(b) Re = $\rho v/\mu D$	
	(c) Re = $\rho v D/\mu$	(d) Re = vD/ρμ	
30.			
	(a) Inhibition of intracellular protein kinases and		ion
	(b) Protein kinases activation and protein phosph	_	
	(c) blocking of interaction between a receptor and	d an effector	
	(d) Antagonism with endogenous legands		
31.	. Which of the following cholinomimetics activates b		•
	(a) Lobeline (b) Pilocarpine	(c) Carbachol	(d) Bethanechol
32.			c no with
00	(a) 1 st carbon (b) 2 nd carbon	(c) 3 rd carbon	(d) 5 th carbon
33.	•	(L) B · · · · · · · · · · · · · · · · · ·	though Country
	(a) Antifungals (-azoles)	(b) Protease inhib	itors (-avir)
	(c) Macrolides (-mycin)	(d) Barbiturates	

34.	'Probability of nonsterility' is given by				
	(a) F value (b) Z value	(c)	D value	(d)	None of the above
35.	Which of the following is a selective medium for th	e gro	wth of vibreochelerae	9	
	(a) Thayer martin medium	(b)	Cefoxitin cycloserin	e fruc	tose agar
	(c) Skirrow's medium	(d)	Thiosulfate citratr b	ile sui	rcrose agar
36.	Specific conductance unit is				
	(a) Ohm cm ⁻¹ (b) Mho cm ⁻¹	(c)	Ohm cm	(d)	None of the above
37.	Karplus curve is associated with which spectroscop	ру			
	(a) UV (b) Mass	(c)	FTIR	(d)	NMR
38.	Which of the following pair of volujmetric method of	farge	ntometric titration an	d indi	cator used is matched
	correctly				
	(1) Fajan's Method	Chi	romate		
	(2) Mohr's method	Flu	roescein		
	(3) Vohlard's method	Fer	ric salt		
	The method and indicator matches correctly in				
	(a) 1 and 2 only (b) 2 and 3 only	(c)	3 only	(d)	2 only
39.	The reaction of the citric acid cycle that is most sim	nilar t	o the pyruvate dehydi	rogen	ase complex catalyzed
	conversion of pyruvate to acetyl-CoA is the conver-	sion (of		
	(a) Citrate to isocitrate	(b)	Fumarate to malate		
	(c) Malate to oxaloacetate	(d)	α-ketogultarate to s	uccin	yl-CoA
40.	Which one of the following pairs of lipids & related	comi	oounds exbibit opposi	ite bio	ological activities
	(a) 5-HPETE & leukotriene D4	_	Cholic acid & Lithoc		
	(c) Neuraminidase Inhibitors	. ,	Acetone & β-hydro		
41.	HIV may NOT respond to	()	, ,	, .	
	(a) Nucleoside analogues	(b)	Protease inhibitors		
	(c) Neuraminidase inhibitors		Reverse transcripta	se inh	ibitors
42.	Palmitic, oleic or stearic acid ester of cholesterol us		•		
	(a) Oleo oil (b) Lanoline		Spermaceti		Chaulmoogra oil
43.	Is needed for suspensions, lotions, emuls	. ,	•	s to k	eeps a high container
	consistency and yet pour and spread easily when				
	easy to inject				·
	(a) Thinxotropy (b) Rheopecty	(c)	Rheology	(d)	Newtonian flow
44.	The enzyme superoxide dismutase (SOD) converts			, ,	
	(a) O ₂ -to hydrogen peroxide (H ₂ O ₂)	(b)	Hydrogen peroxide	(H,O,) to H ₂ O
	(c) H ₂ O to hydroxyl (OH) redicals		O_2 - to O_2	`	
4 5	•				
45.	For first order reactions the rate constant, k, has the			6.3) a-1
	(a) Ms^{-1} (b) $M^{-1}s^{-1}$	(c	$M^{-2} s^{-1}$	(d) s ⁻¹

46.	Which of the following may be used to assess the rela	tive bioavailability of two chemically equivalent drug
	product in a crossover study	
	(a) Dissolution test	(b) Peak concentration
	(c) Time-to-peak concentration	(d) Area under the plasma level time curve
47.	A 25.0 mL sample of a solution of a monoprotic acid $\stackrel{\cdot}{}$	is titrated with a $0.115\ M$ NaOH solution the titration
	curve shows equivalence point at 7.05. which of the	following indicators would be best for this titration
	(a) Methyl red (b) Bromthymol blue	(c) Thymol blue (d) Phenopltalein
48.	Which of the following in termed as mass filter	
	(a) Time of flight (b) Farady cup	(c) Quadupole (d) Ion trap
49.	Which of the following is produced in phenyl propa	noid pathway
	(a) PHenolics (b) Catotenes	(c) Alkaloids (d) Terpenes
50.	A diode array detector coupled with UV detection is	advantageous because it
	(a) Covers a range of wavelengths	
	(b) Allow lower concentrations of analyte to be determined to be determined to the d	ected
	(c) Speeds up the detection at a single wavelength	
	(d) Allows a single wavelength of detection to be mo	preprecisely chosen
51.	The LOD of an analysis is at the femtogram level. Thi	s corresponds to detection at the
	(a) $1 \text{ in } 10^{-18} \text{ level}$ (b) $1 \text{ in } 10^{-15} \text{ level}$	(c) $1 \text{ in } 10^{-12} \text{ level}$ (d) $1 \text{ in } 10^{-9} \text{ level}$
52.	Which are those the rapeutic systems, which liberate	the active ingredient through a special hole, prepared
	by laser	
	(a) TTS patches (b) IUD systems	(c) OCUSERT systems (d) OROS systems
53.	Which of following chromatographic technique is mos	st suitable for small, nonvolatile water-insoluble solutes
	(a) GC	(b) Reverse phase LC
	(c) Normal phase LC	(d) SEC
54.	Which of the following antiviral agent in not a nucle	oside analog
	(a) Moroxidin	(b) Vidarabine
	(c) Cytarabine	(d) Idoxuridine
55.	Regarding two compartment pharmocokenitics all a	
	(a) A drug is always removed from the peripheral	compartment
	(b) A drug with a high volume of distribution is like	ly to be lipophilic
	(c) A drug can have a short duration of action while	e being eliminated very slowly
	(d) Most anesthetic drugs are modelled well with a	two-compartment model
56.	Phenothiazine is obtained bywith sulfur	
	(a) Cyclization of dibenzyl	(b) Cyclization of diphenyl amine
	(c) Reduction of diphenyl amine	(d) Reduction of dibenzyl amine
57.	Vitamin K is constituted ofring	
	(a) Hdroquinone	(b) Nathphaquinone
	(c) Lonone	(d) Denzimidazole

58.	To balace intellectual property protection, competition	on an	nd access to affordable prescription drug, the act
	made by US government is		
	(a) Drug Price Competition act	(b)	Patent term Restroration act
	(c) Hatch-Waxman act	(d)	Orphan Drug Act
59.	Gridnard test is used for the detection of		
	(a) Falavonoids	(b)	S- gyycosides
	(c) Cyanogenetic glycosides	(d)	O-glycosides
60.	Which hormone works antagonistically to parathorn	mone	2
	(a) Triiodothyronine (b) Insulin	(c)	Estrogen (d) Calcitronin
61.	Drugs that have been found to be useful in one or m	ore	types of heart failure include all of the following
	EXCEPT		
	(a) Na ⁺ /K ⁺ ATPase inhibitors	(b)	α adrenoceptor agonitst
	(c) β Adrenocepotor agonists and antagonists	(d)	ACE inhibitors
62.	Which one of the following is used in the Ames test $% \left\{ 1\right\} =\left\{ 1\right\}$		
	(a) E. coli	(b)	Streptococcus aureus
	(c) Pseudomonas aerogenosa	(d)	Salmonielia typhimurium
63.	Which of the ultrashort acting adrenergic blocker		
	(a) Carvedilol (b) Atenolol	(c)	Esmolol (d) Acetutotol
64.	Match the following biochemical transformations wi	th co	penzymes involved
	(i) α -Ketoglutarate to glutamic acid	(a)	Tetrahydrofalate
	(ii) Uridine to thymidine	(b)	NADH
	(iii) Pyruvid acid to acetyl coenzyme A	(c)	Thiamine pyrophosphate
		(d)	Pyridoxamine
	(a) i-d, ii-a, iii-c	(b)	i-a, ii-b, iii-d
	(c) i-b, ii-a, iii-c	(d)	i-d, ii-b, iii-c
65.	Drugs that show nonlinear pharmacokinetics have	whic	h of the following property
	(a) A constant ratio of drug metabolites is formed a	is the	e administered dose increase.
	(b) The elimination half – life increasing as the adm	inist	tered dose increase
	(c) The area under the plasma drug concentration	versı	us time curve increasing in direct proportion to
	an increase in the administered dose.		
	(d) Both low and high doses follow first order elimin	natio	n kinetics
	(e) The steady state drug concentration increases in	n dir	ect proportion to the dosing rate
66.	Appropriate reasons for the deviation form the been	r's la	w among the following are
	(P) Mnonchromaticity of light	(Q)	Very high concentration of analyte
	(R) Association of analyte	(S)	Dissociation of analyte
	(a) P, Q AND R	(b)	Q, R, and S
	(c) P, R and S	(d)	P, Q and S
67.	An alternaive to glycolysis pathway is		
	(a) Glyoxylate pathway	(b)	Pentose phosphate pathway
	(c) Citric acid cycle	(d)	Gluconeogenesis

68.	LeChatelier's principle sta	ates that increasing tempe	ratur	e favors a reaction tha	ıt	
	(a) Release energy as he	eat	(b)	Requires energy as h	ieat	
	(c) Involves a chemical of	catalyst	(d)	Gluconeogenesis		
69.	In absorption spectrome	try, high values of absorba	ance	values (grater than 1	or 2) tend to give poorer
	precision because					
	(a) Too much light satur	ates the detector				
	(b) Little light reaches th	ie detector				
	(c) Beer's law deviations	are worse				
	(d) Monochromators wo	ork poorly under intense li	ght			
70.	When the angle of repos	se exceeds , the p	oowd	er flow is rarely acce	ptabl	le for pharmaceutical
	manufacturing purpose					-
	(a) 25	(b) 30	(c)	50	(d)	60
71.	The chelate, EDTA4: can d	described as what type of cl	helati	ing ligand		
	(a) Bidentate	(b) Tetradentate	(c)	Hexadentate	(d)	Tridentafe
72.	Living cells are negatively	charged inside primarily	beca	use of		
	(a) ATP, organic acids, ar	nd other negative molecule:	s tha	t cannot escape		
	(b) Removal of sodium is	ons, which are positively c	harg	ed, by the Na+/K pump)	
	(c) Extrusion of Ca2+ ion	n, which is much more con	centr	ated outside a cell that	n ins	ide
	(d) Cell membranes that	are more permeable to po	otassi	um than sodium		
73.	Which of the following dr	rugs requires administratio	n on	an empty stomach		
	(a) Naproxen		(b)	Levothyroxine		
	(c) Prednisone		(d)	Nitrofurantoin		
74.	Which of the following is	a non- aqueous binder				
	(a) Ethyl cellulose	(b) Starch	(c)	Veegum	(d)	Bentonite
75.	Which of the following dr	ugs requires administratio	n on	an empty stomach		
	(a) Cannbichromene		(b)	Cannabinol		
	(c) Cannabidiol		(d)	Tetrahydorcannabino	ol	
76.	What is the osmolality of	a solution if one mmole of	gluco	se and two mmoles of	NaC	l are dissolved in 1 kg
	of the water					
	(a) 3 mOsm	(b) 4 mOsm	(c)	5 mOsm	(d)	6 mOsm
77.	How much can be the wo	rking revolution per minu	te (R	PM) of the ball mill		
	(a) 23-28 "D where D m	eans the diameter of jar				
	(b) Two times more than	n the critical revolution per	r min	ute		
	(c) 42.3 "D (D=diameter	of the jar)				
	(d) The average of critical	al RPM and the optional R	PM			
78.	A compound with an -OH	group and -OR group bor	nded	to the same carbon at	om is	S
	(a) An actal	(b) A hemicacetal	(c)	A simple ether	(d)	An aldol
79.	The reaction of Grignard i	reagent with aldehydes and	keto	nes gives alcohols. Thi	s is l	known as
	(a) NEcleophilic addition	reaction	(b)	Necleophillic substitut	tion 1	eaction
	(c) Electrophllic substitut	ion reaction	(d)	Electrophilic addition	react	tion

80.	Osazone is formed by rea	action of moles of p	oheny	dthdrazine with mono	saccł	naride
	(a) 1	(b) 2	(c)	3	(d)	4
81.	If a sugar contains	. fuction, it is a reducing su	ıgar			
	(a) Hemiacetal	(b) Acetal	(c)	Aldehyde	(d)	Ketal
82.	Adverse effect of cerivast	atin is				
	(a) Higher risk of rhabo	lomyolysis	(b)	Anaphylaxis		
	(c) Hepatic disorder		(d)	Hemolytic anemia		
83.	Following emigration for mediated by	rom blood vesels, leucoc	yte n	nigration to the site	of in	nfection or injury ir
	(a) Bradykinin		(b)	Chemokines and Con	nplen	nents C5a
	(c) Histamine		(d)	Prostaglandins		
84.	In adults, drugs are an i	mportant cause of Fancon	i's sy	ndrome. Drugs that o	ause	Fanconi's Syndrome
	include which group belo	w. Select One				
	(a) Antiretroviral agents	, aminoglycosides, glucoco	rticoi	ds		
	(b) Tenofovir, outdated t	etracycline, cisplatin				
	(c) Cidofovir, galactose s	upplements, NSAIDs				
	(d) Cyclosporin, Tenofov	rir, lamivudine				
85.	Which of the following is	a type of phytoestrogen				
	(a) F	(b) W	(c)	G	(d)	Y
86.	Which aerosol particles v	vill be deposited in alveoli				
	(a) >20 μm	(b) <0.6 μm	(c)	2 and 6 μm	(d)	1-2 μm
87.	According to lipinskl's ru	ale of 5 , which of the follo	wing	properties of drug mo	olecu	les are likely to cause
	poor oral absorption					
	(a) A molecular weight k			A log P less than 5		
	(c) Less than 5 hydroge			More than 10 hydrog	_	-
88.	0.	analysis to obtain indivisu			† in a	a given mixture of the
		hieved by measuring their				
	(a) Half way potentials		` '	Migration currents		
	(c) Decomposition poter			Diffusion currents		
89.		ent for the treatment of ac	_			
	(a) Indemethacin			Allopurinol		
	(c) Cokhicine		, ,	Probenecid		
90.	ŭ	actions of norepinephr	ine w	vould be antagonized	by	prazosin but not by
	propranolol.					
	(a) Increased heart rate			Mydriasis		
	(c) Relases of rennin			Glycogenolysis		
91.		cursor for which of the va				
	(a) Bradykinin			Atrial natriuretic pep	tide	
	(c) Nitrous oxide		(d)	L- Citrulline		

92.	Whi	ich of the following is a	a test of digitoxose				
		Keller Kiliani's	O .	(b)	Kedde's reagent		
	(c)	Raymond's reagent			Baljet's reagent		
93.	The	Vd for phenytoin is 70	L and half life is 1.5 hour	s. W	hat is the total clearan	ce of	phenytoin
		34.32 L/h			32.34 L/h		priority com
	. ,	151.5 L/h		, ,	51.51 L/h		
94.		,	ytohormone usually acts a	, ,	•		
		Gibberlin	(b) Ctyokinin		Zeatin	(d)	Indole Acetic acid
95.	. ,		t between HPLC and UPLC	` ′		()	
	(a)	HPLC is reverse-phas	e whereas UPLC in norma	l-pha	ase		
	(b)	UPLC employs smaller	stationary-phase particle	size			
	(c)	HPLC and UPLC empl	oy different mobile phase				
	(d)	HPLC and UPLC empl	oy different detection metl	nods			
	(e)	HPLC operates at high	her mobile phase pressure	es			
96.	Whi	ich drug is associated v	with hepatic/ renal toxic n	netab	olite, N-acetyl-pbenzo	quio	ne
	(a)	Diclofenac	(b) Meclofenamate	(c)	Indomethacin	(d)	Acetaminophen
97.	Wha	at is the percentage of c	hlorpromazine (pKa = 9.3)	exiti	ng in ionized form in a s	solut	ion of chlorpromazine
	hyd	rochloride at pH 7.4					
	(a)	98.76	(b) 1.24	(c)	0.32	(d)	99.68
98.	Whi	ich of the following is	a GLP-1 agonist				
	(a)	Sitagliptin	(b) Pramiltide	(c)	Exenatide	(d)	Eparlrestat
99.	Wha	at is mechanism of apr	otinin				
	(a)	Inhibits Corboxypepti	dase	(b)	Inhibits Plasminogen		
	(c)	Inhibits plasmin		(d)	Inhibits plasminogen	activ	ator
100	. Abs	olute akohol is prepar	ed from spirit by				
	(a)	Distillation		(b)	Azeotropic distillation	ı	
	(c)	Fractional distillation		(c)	All of the above		
101	. Whi	ich of the following is i	nterleukin agonist				
	(a)	Aldesleukin	(b) Rituximab	(c)	Anakinra	(d)	Etarecept
102	. An e	extension of the norma	al pharmacological effects	of a	drug or its metabolite i	is ter	med as
	(a)	Type A ADR	(b) Type B ADR	(c)	Type C ADR	(d)	Type D ADR
103	. Whi	ich of the following pa	rameters is/are important			ence	
	(a)	T _{max}	(b) C _{max}	(c)	AUC and C _{max}	(d)	None of these
104	. Wh	at are known as balsar	ns				
	(a)	Resins dissolved in vo	latile oil		A mixture of volatile of		
		Solidified resin devoid	•		Polysaccharide mixed	with	ı volatile oil
105			d from In the plan				
		Farnesyl-pyrophosph	ate		Geranyl farnesyl pyr	-	•
	(c)	Coloring material		(d)	Degraded products of	trie	rpenes
106.	. Whi	ich of the following is a	a type of phytoestrogen				
	(a)	Lutein		(b)	Indoles		
	(c)	Isothicotynates		(d)	Genistein		

107.	Atta	chment of polyethylene glycol (PEG) to proteins	/ dru	gs do all of the followi	ing EXCEPT
	(a)	Protect them form rapid hydrolysis or degrada	tion		
	(b)	Improves micromole solubility			
	(c)	Increases absorption form the gut			
	(d)	Minimizing the uptake by the cells of the reticul	loenda	othelial systems	
108.	Ider	ntify the harmful drug-drug interaction			
	(a)	Imipenem - Cilastatin	(b)	L-Dopa-Entacapone	
	(c)	Meperidine - Pargyline	(d)	Methotrexate - leuco	vorin
109.	Syn	thesis of thyroid hormone in inhibited by all EX	СЕРТ.		
	(a)	Propyl thiouracil	(b)	Methimazole	
	(c)	Perchlorate	(d)	Diatrazoate	
110.	Cho	ose correct statement for PEGylation:			
	(a)	Used to enhance In-vivo half-life of smaller Pep	tides	and proteins	
	(b)	Avoidance of Reticulo-endothelial (RES) clearan	ice		
	(c)	Reduce clearance rate through kidney			
	(d)	All			
111.	Wh	ich of the following is a common herbal remedy	for i	nsomnia	
	(a)	Milk thistle (b) Echinacea	(c)	Eucalyptus	(d) Valerian
112.	In v	vhich category of in vitro in vivo correlation the	mear	ı in vitro dissolution t	time is compared either to
	the	mean residence time of to the mean residence ti	me o	r to the mean in vivo o	dissolution time
	(a)	A (b) B	(c)	C	(d) D
113.	Wh	at does the Hammett substituent constant (σ) m	easur	e	
	(a)	The steric effect of a substituent	(b)	The electronic effect	of a substituent
	(c)	The hydrophobic effect of a substituent	(d)	The effect on pH of a	substituent
114.	Pro	perty exploited by electroanalytical technique of	caou	lemetry is	
	(a)	Electric potential	(b)	Electrical charge	
	(c)	Elcectrical current	(d)	Electrical resistance	
115.		are true EXCEPT			
		Soft soaps give emulsions with a pH in the basi	c rang	ge	
	(b)	Hard soaps form water-in-oil emulsions			
	(c)	Water-soluble polymers favor the formation of		. , ,	
	(d)	On the HLB system, lower numbers are assigned	ed to l	ipophilic compounds	while higher numbers are
		assigned to hydrophilic compounds http://ww	w.xar	nstudy.com	
116.	In ca	allus culture, roots can be induced by the supply	of		
	(a)	Auxin and no cytokinin			
	(b)	Higher concentration of auxin and lower concer	rtatio	n of cytokinin	
	(c)	Higher concentration of cytokinin and lower co	ncent	ration of auxin	
	(d)	Auxin and cytokiinin in equal proprotions			
117	Pro	staglandin used in the treatment of postpartum	hemo	rrhage is	
11/.		Carboprost (b) Latanoprost		Bimatotprost	(d) Travoprost
	(a)	(b) Latanoprost	(0)	Dillacoprost	(a) Havopiost

118. Identity 5HT3 receptor antagonist which is 5HT4 ag	gonist also
(a) Metoclopramide (b) Cispride	(c) Cilassetron (d) Graniseton
$119. \ Which of the following AT-II \ receptor \ antagonists \ (SAF)$	RTANs) does not possess tetrazole moiety in its structure
(a) Losartan	(b) Irbesartan
(c) Telmisartan	(d) Valsartan
120. What useful information can be found from a Van I	Deemter plot
(a) Optimum selectivity factor	(b) Optimum mobile phase flow rate
(c) Optimum column temperature	(d) The capacity factor
121. Brockman activity Scale' is used in the characterizat	cion of
(a) Stationary phase	(b) Mobile Phase
(c) Buffer System used	(d) Column specification
122. The FDA allows a maximum of salicylic aci	d in commercial aspirin tablets
(a) 0.05 % (b) 0.1 %	(c) 0.15% (d) 0.25 %
123. A phenolic acid compound isolated from the ripe from	uits of myrobalan (karitaki)
(a) Chebulic acid	(b) Ferulic acid
(c) Emblicanin	(d) Pivalic acid
124. Asafoetida _Nitric acid gives	
(a) Reddish-brown colour	(b) Green colour
(c) Yellowish-orange colour	(d) Blue fluorescence
125. Endocrine effects of antipsychotic like chlorpromazi	ne include all of the following EXCERT
(a) Decrease in adrencorticotrophins, Decrease in	gonadotrophins
(b) Decrease in release of pituitary growth hormor	ne
(c) Increase in prolactin secretion	
(d) Decrease in thyroid hormone production	

End of paper

ANSWER KEY GPAT 2013

1-c	2-b	3-d	4-c	5-c	6-d	7-a	8-d	9-a	10-с
11-b	12-d	13-d	14-b	15-d	16-c	17-b	18-c	19-d	20-с
21-с	22-d	23-d	24-d	25-a	26-с	27-b	28-c	29-с	30-b
31-c	32-b	33-d	34-a	35-d	36-b	37-d	38-с	39-d	40-с
41-c	42-b	43-a	44-a	45-d	46-c	47-b	48-c	49-a	50-a
51-b	52-d	53-b	54-a	55-a	56-b	57-b	58-с	59-с	60-d
61-b	62-d	63-c	64-c	65-b	66-b	67-b	68-b	69-b	70-с
71-c	72-a	73-b	74-a	75-d	76-с	77-a	78-b	79-a	80-с
81-a	82-a	83-b	84-b	85-c	86-d	87-d	88-d	89-с	90-b
91-c	92-a	93-b	94-d	95-b	96-d	97-a	98-с	99-с	100-d
101-с	102-a	103-с	104-a	105-a	106-d	107-с	108-c	109-d	110-a
111-d	112-b	113-b	114-b	115-с	116-b	117-a	118-b	119-с	120-b
121-a	122-с	123-a	124-b	125-d					