GPAT QUESTION PAPER 2014 WITH ANSWER KEY

GPAT QUESTIONS

1.	_	, system does	not have orifice to release	the	drug.		
	(a)	Elementary Osmotic P	ump	(b)	L-OROS		
	(c)	Sandwich Osmotic Pu	mp Tablet	(d)	Controlled Porosity Os	smot	ic Pump Tablet
2.	In v	vhich rearrangement r	eaction, Isocyanate is forn	ned?			
	(a)	Curtious	(b) Lossen	(c)	Both A & B	(d)	None
3.	Chit	tin gets converted in to	Chitosan upon:				
	(a)	Acetylation	(b) Deacetylation	(c)	Oxidation	(d)	Reduction
4.	All	of the following are lea	f constants EXCEPT				
	(a)	Vein-islet number		(b)	Vein-termination nu	mbe	r
	(c)	Stomatal number		(d)	Leaf fiber		
5.	Zinl	k chloride is added to m	nouth wash because it acts	as			
	(a)	Fragrance	(b) Astringent	(c)	Cooling agent	(d).	Antibacterial
6.	The	choice of route of adn	ninistration plays an impor	tant	role in action of direct	ly ac	ting cholinomimetic .
	Adv	verse effect of cholin	ne esters that may be a	voic	led by selection of a	an aj	opropriate route of
	adn	ninistration is					
	(a)	Bradycardia	(b) Hypotension	(c)	Delirium	(d)	Sweating
7.	Siev	ve size 80 has opening	of				
	(a)	0.100 mm	(b) 0.125 mm	(c)	0.150 mm	(d)	0.180 mm
8.	The	ideal saponification v	alue for suppository base i	S			
	(a)	50-100	(b) 100-150	(c)	150-200	(c)	200-500
9.	o, n	n, p- isomers can be di	fferentiated on the basis of	f:			
	(a)	Chemical shift		(b)	Coupling constant		
	(c)	Extinction coefficient		(d)	Dipole moment		
10.	Wh	ich of the following dr	ug comes under Schedule C	1			
	(a)	Opium	(b) Ergot	(c)	Fish liver oil	(d)	Insulin
11.	Sou	rce of amla is					
	(a)	Phyllanthus inruri		(b)	Terminiliachebub		
	(c)	Terminalia Bacteria		(d)	Embilca officinalis		
12.	Wh	at is the unit of dielectr	ric constant				
	(a)	Dyne	(b) Debey	(c)	Farad/meter	(d)	No Unit
13.	Mor	nitoring of plasma drug	g concentration is required	whi	le using:		
	(a)	Antihypertensive dru	gs	(b)	Levodopa		
	(c)	Lithium carbonate		(d)	MAO inhibitors		



14.	Of the following antibi	otics, which one would be	accep	otable to use when tro	eatin	g penicillin resistant
	S. pnumoinae otitis media					
	(a) Azithromycin	(b) Clarithromycin	(c)	Cefuroxime	(d)	Cefaclor
15.	Addtion of which of the	following to a large volume	parn	tral product is not adv	ised	
	(a) Active pharmaceut	ical ingredient	(b)	Preservatives		
	(c) Buffering agens		(d)	Tonicity adjusters		
16.	A drug suspension de	composes by zero-order ki	netic	cs with a rate consta	nt of	f 2 mg mL ⁻¹ month ⁻¹
	if the initial concentrati	on is 100 mg mL^{-1} what is th	e she	elf life		
	(a) 2 months	(b) 3 months	(c)	4 months	(d)	5 months
17.	Sanguinarine belongs t	o the subgroup of:				
	(a) Morphinans		(b)	Benzyl isoquinolines		
	(c) Phthalide isoquino	lines	(d)	Benzophenanthrene	S	
18.	Antidote for paracetam	ol overdosing is				
	(a) Atropine	(b) N- Acetly cysteine	(c)	Glutathione	(d)	Theophylline
19.	Which one of the follow	ving drug combination is con	ıtrain	dicated		
	(a) Glyceryl trinitrate a	and sildenafil		(b) Amoxicillin and o	clavu	lanic acid
	(c) Losartan and hydr	ochlorothiazide	(d)	Pyrimthemaine and s	sulfac	doxine
20.	Which sugar is suitable	for diabetic patient				
	(a) Fructose	(b) Lactose	(c)	Mannitol	(d)	Sucralose
21.	Headquarter of Bureau	of Indian standards is situat	ed at			
	(a) New delhi	(b) Mumbai	(c)	Kolkata	(d)	Chennai
22.	Identity the structure of	barbituric acid				
	(a)	(b) (c)		(d)		
			110	N.		^
	NH	NH	1	NH		
	N N	N N	//	N O		N
	о п	о н о		п о		н О
23.	Ehtics for pharmacist	are put forth by				
	(a) PCI	(b) CDSCO	(c)) AICTE	(d) WHO
24.	What is the IUPAC nar	ne of the following compour	nd			

(b) Tricyclo[2.2.2] ontane

(d) Bicyclo [2.2.1] heptanes

(a) Bicyclo[2.2.2] octane

(c) Bicyclo[2.2.0] ontane



25.	Mor	phine does not cause:					
	(a)	Constriction of pupil		(b)	CNS depression		
	(c)	Respiratory depressi	on	(d)	Diarrhoea		
26.	Whi	ich of the following is	seed gum				
	(P)	Gaur gum		(Q)	Locust bean gum		
	(R)	Xanthan gum		(S)	Gellan gum		
	(a)	P and Q		(b)	R and S		
	(c)	Q and R		(d)	P and S		
27.	The	cancer that derived for	orm ectoderm of endoderm	of ep	oithelial cells is		
	(a)	Carcinoma	(b) Sarcoma	(c)	Leukaemia	(d)	Myloid
28.	Whi	ich of the following is,	are marine anticancer				
	(a)	Trabectadine		(b)	Eribulin		
	(c)	Cytarabine		(d)	All of the above		
29.	Iden	ntity the compound wh	nich is derived form typtop	han			
	(a)	Pilocarpine	(b) Ephedrine	(c)	Muscarine	(d)	Quinoline
30.	Opi	um, cocoa, poppy stra	w are given in				
	(a)	Schedule H					
	(b)	Schedule X					
	(c)	Narcotic drugs and P	sychotropic substances act	199	8		
	(d)	Schedule C					
31.		411 - 624 - 62 - 62 - 62 - 62 - 62 - 62 - 6	ll be inert in NMR spectron				
	1000 50 ->	13C	(b) 31P		2Н	(d)	1H
32.		V.54	etween keto and enol tauto				
	10000000	Resonance forms			Steriosomers		270
	(c)	Constituonal isomers		(d)	Different conformation	ns o	f the same compound
33.	Whi	ich of the following is	following is true for natura	l kilk	er cells		
	(a)	They may phagocyto:	se tumor cells				
	(b)	Killing of cells is enha	inced by interleukin-2				
	(c)	They recognize and k	ill some virus-infected cell	5			
	(d)	Killing of cells is stim	ulated by prostaglandin E2				
34.	Eval	luation of colour is tab	lets is done by				
	(a)	Reflectance spectropl	notometer	(b)	Tristimulus colorimet	er	
	(c)	Microreflectance pho	tometer	(d)	All of the above		
35.	The	disintegration time o	f the effervescent tablets is				
	(a)	2 minutes	(b) 2.4 minutes	(c)	3.5 minutes	(d)	5 minutes



36.	Identify the false statements abou	ut magmas:				
	(P) The addition of suspending agents to magmas is always necessary					
	(Q) Magmas differ from gels in that their suspended particles are larger					
	(R) Magmas are two- phase systems					
	(S) Magmas basically are gets					
	(a) P and Q (b) Q	and R (c)	Only P	(d) Only S		
37.	All of the following ACE inhibito	rs are prodrugs EXCEPT				
	(a) Ramipril (b) L	isinopril (c)	Enalapril	(d) Perindopril		
38.	All of the following is resistant to	o both true and pseudo c	holinesterase enzymes			
	(a) Carbachol	(b)	Acetylcholine			
	(c) Methacholine	(d)	Pilocarpine			
39.	Globule size of parenteral emulsi	ion should be				
	(a) $0.1 \text{ to } 0.5 \ \mu\text{m}$ (b) 0	$1.5-5 \mu m$ (c)	5-10 μm	(d) Any of the above		
40.	The objective of audit is to					
	(a) Improve the product quality	(b)	Find out the fault			
	(c) Improve the product value	(d)	Find and process fault	t and to improve		
41.	is an alkaloid derived for	m aliphatic amino acid				
	(a) Reserpine (b) N	licotinic acid (c)	Anabasine	(d) Vinblastine		
42.	The drug sulphan blue is obtained	ed fromsource				
	(a) Plant (b) A	animal (c)	Synthetic	(d) Mineral		
43.	In mammals, The major fat in ad	ipose tissue is: http://w	ww.xamstudy.com			
	(a) Triglyceride	(b)	Cholesterol			
	(c) Sphingophospholipids	(d)	Phospholipids			
44.	Dovers powder used as a diapho	oretic contains:				
	(a) Ipecac & Opium	(b)	Ipecac, Senna & Cincho	ona		
	(c) Opium, Ipecac & Cinchona	(d)	All			
45.	Biological active form of Vit. D in	man is:				
	(a) Cholecalciferol	(b)	Calcifediol			
	(c) Calciferol	(d)	Calcitriol			
46.	Actions and clinical uses of musc	carinic cholinoceptor ago	onists include which on	of the following		
	(a) Bronchodilation (asthama)					
	(b) Improved aqueous humor d	lrainage (glaucoma)				
	(c) Decreased gastrointestinal n	notility (diarrhea)				

(d) Decreased neuromuscular transmission and relaxation of skeletal muscle (During surgical anesthesia)



	47.	Reg	garding the role of su	rfactants in pharmaceutic	al su	spensions for oral ad	ministration which of the
		following statements is false					
		(a) Surfactants decrease the water contact angle of dispersed drug particle					
		(b)	Surfactants promote f	locculation			
		(c)	Surfactants with high	HLB stabilize oral suspens	sions		
		(d)	Surfactants increase t	he viscosity of the continu	ious	phase of pharmaceuti	cal suspensions
4	48.	Wh	ich of the following dru	ug is NOT used in treatmen	nt of	H. Pylori infection	
		(a)	Ampicillin		(b)	Clarithromycin	
		(c)	Mosapride		(d)	Bismuth subgallate	
	49.	The	e most suitable disinfec	tant for decontamination o	of HIV	V contaminated endosc	cope is
		(a)	1% Sodium hypochlo	rite	(b)	2% Glutaraldehyde	
		(c)	5% phenol		(d)	70% ethanol	
	50.	Wh	ich rule does provide th	ne most accurate method	to ca	kulate the dose for chi	ld based on adult dose
		(a)	Age is months		(b)	Age in years	
		(c)	Weight in pounds		(d)	Body surface area	
	51.	Che	emokine co-receptor 5	(CCR 5) inhibitor is			
		(a)	Enfuvirtide		(b)	Maraviroc	
		(c)	Raltegravir		(d)	Atazanavir	
	52.	The	Franz diffusion cell w	hich is used for the evalua	tion	of transdermal drug de	livery systems consists of:
		(a) :	1 chamber	(b) 2 chamber	(c)	3 chamber	(d) None
	53.	Wh	ick of the following pla	astic is transparent and fle	xible		
		(a)	Silicon rubber	(b) PVP	(c)	HDPED	(d) PE
5	54.	In v	vhich method an order	r of a fixed number of ite	ms is	s placed every time ar	n inventory level falls to a
		pre	determined point				
		(a)	A-B-C method		(b)	Maximum and minim	um method
		(c)	Open-to-buy method		(d)	Economic order quan	tity
5	55.	Cho	ose the option with tw	o reducing sugars			
		(a)	Lactose and maltose		(b)	Trehalose and surcro	ose
		(c)	Maltose and tredhalos	se	(d)	Economic order quan	tity
5	56.	The	Local anesthetic with	highest cardiotoxicity is			
		(a)	Lingocaine		(b)	Bupivacaine	
		(c)	Levo- bupivacaine		(d)	Procaine	
Ş	57.	Hor	natropine is				
		(a)	Tropine ester of amin	o acetic acid	(b)	Tropine ester of men	delic acid
		(c)	Tropine methyl brom	ide ester of mendelic acid	(d)	Tropine ester of amin	o formic acid
	58.	Tra	nexamic acid is				
		(a)	Antithrombotic	(b) Antifibrinolytic	(c)	Fibrinolytic	(d) Styptic



59.	Wh	ich of the antihistaminic compound has antiadrog	genic	effect
	(a)	Famotidine	(b)	Ranitidine
	(c)	Nizatidine	(d)	Cimetidine
60.	Wh	ich of the following drug is used prefenntially as	prea	nesthetic mediation
	(a)	Midazolam	(b)	Oxazepam
	(c)	Alprazolam	(d)	Nitrozepam
61.	Pro	ton pump inhibitors are most effective when give	en	
	(a)	Half hour before meals	(b)	With meal
	(c)	After prolonged fasting	(d)	Along with H2 blockers
62.	Mat	ch compounds is Group I with inhibitory activitie	es in	Group II
	Gro	oup I	Gro	oup II
	(P)	Vancomycin	(1)	Folate metabolism
	(Q)	Rifampin	(2)	DNA synthesis
	(R)	Puromycin	(3)	Protein synthesis
	(S)	Ciprofloxacin	(4)	RNA synthesis
			(5)	Cell wall systhesis
	(a)	P-5, Q-4, R-3, S-2	(b)	P-4, Q-3, R-1, S-2
	(c)	P-4, Q-1, R-3, S-2	(d)	P-5, Q-3, R-2, S-4
63.	For	mation of Okazaki occurs in		
	(a)	Transcription	(b)	Replication
	(c)	Translation	(d)	Reverse Transcription
64.	Dru	ıg used in ventricular arrhythmia is		
	(a)	Flecainide	(b)	Verapamil
	(c)	Esmolol	(d)	Diltazem
65.	The	e lipoprotein with the fastest electrophoretic mob	ility	and the lowest TG content is
	(a)	VLDL	(b)	HDL
	(c)	LDL	(d)	Chylomicrons
66.	As	per schedule 'Y' of the drugs and cosmetics act, the	e ani	mal toxicity study requirements for marketing of
	a di	rug depends upon tentative route and duration of a	admi	nistration in humans. In This context, which one
	of t	the following statements is incorrect		
	(a)	Single dose human use-animal toxicity for 2 week	eks ir	n 2 species
	(b)	Oral use for 2 weeks in humans- animal toxicity	for	4 week in 2 species
	(c)	Aerosol use by repeated use in humans- animal	toxi	city for 24 weeks in 2 species
	(d)	Multiple daily ocular application for short durati	on-i	regation test in 1 species for 3 weeks
67.	For	determining the efficacy of sterilization in an auto	oclav	e, the spores of the following organism are used
	as to	est organisms		
	(a)	Bacillus cereus	(b)	Clostridium pefringens
	(c)	Bacillus stearothemophilus	(d)	Clostridium histolyticum



68.	Which of the following pairs is mismatched		
	(a) Aerobic, helical bacteria- gram negative	(b) Entrics- gram negative	
	(c) Myconbacteria – acid fase	(d) Pseudomonas –gram positive	
69.	List of drugs whose import, manufacture and sale, labor	ing and packaging are governed by special pro	visions
	are included in schedule:		
	(a) X (b) K	(c) H (d) G	
70.	Sigma minus method is used in assessment of		
	(a) Bioavailability	(b) Absorption	
	(c) Metabolism	(d) Tissue distribuation	
71.	Which of the plant family contains volatile oil in thei	trichome	
	(a) Rutaceae	(b) Papaveracease	
	(c) Umbelliferare	(d) Laminaceae	
72.	Ferritin is:		
	(a) Coenzyme	(b) The stored form of Iron	
	(c) Non-protein moiety	(d) Isoenzyme	
73.	Which oil is solute is alcohol		
	(a) Arachis oil	(b) Sesame oil	
	(c) Castor oil	(d) Corn oil	
74.	One of the first step of the citric acid cycle is isomeriza	ion of citric acid to isoctiric acid this step is neo	essary
	because		
	(a) Oxidation of secondary alcohols is very difficult		
	(b) Reduction of secondary alcohol is very impossi	le	
	(c) Reduction of tertiary alcohols would require a v	ery powerful oxidizing agent	
	(d) Oxidation of tertiary alcohols would require oxi	izing agents	
75.	Which of the following alkyl halides would undergo	N2 reaction most rapidly	
	(a) CH ₃ CH ₂ -BR	(b) CH ₃ CH ₂ -CL	
	(c) CH ₃ CH ₂ -I	(d) CH ₃ CH ₂ -F	
76.	Mechanism of action of Ketoconazole is:		
	(a) Inhibits Ergosterol synthesis	(b) Inhibits DNA gyrase	
	(c) Inhibits dihydropteroate synthetase	(d) Induces translation misreading	
77.	All are adrenal gland over activity disorders EXCEPT		
	(a) Addison's disease	(b) Conn's syndrome	
	(c) Cushing's syndrome	(d) Cushing's disease	
78.	The oil used in a parenteral product cannot contain		
	(a) WFI (b) Parffin oil	(c) Peanut oil (d) Glycerine	
79.	Identity the non-absorbable sature		
	(a) Catgut suture	(b) Chromic catgut suture	
	(c) Silk suture	(d) Polydioxanone suture	



80.	The	relative lowering of va	apour pressure is given by	7			
	(a)	Raoult's law	(b) Henry's law	(c)	Boyle's law	(d)	Charles law
81.	[der	ntity the functional gro	up present in meprobama	te			
	(a)	Amide	(b) Ester	(c)	Carbamic	(d)	Lactam
82.	Mat	tch the following					
	(P)	Gypsum salt		(1)	$KAI(SO_4)_2 \cdot 12H_2O$		
	(Q)	Epson salt		(2)	FeSO ₄ ·7H ₂ O		
	(R)	Alum		(3)	CaSO ₄ ·2H ₂ O		
	(S)	Green vitriol		(4)	$MgSO_4 \cdot 7H_2O$		
	(a)	P-1, Q-2, R-4, S-3		(b)	P-3, Q-4, R-1, S-2		
	(c)	P-4, Q-3, R-1, S-2		(d)	P-2, Q-4, R-1, S-3		
83.	Tine	ea capitis is ringworm	infection of				
	(a)	Feet	(b) Groin	(c)	Head	(d)	Nails
84.	Ran	k the following compou	ınds is order of increasing re	activ	rity in electrophilic arom	natic	Substitution reactions
	(P)	C_6H_6	(Q) $C_6H_5CH_3$	(R)	$C_6H_5NO_2$		
	(a)	Q <p<r< td=""><td>(b) R<p<q< td=""><td>(c)</td><td>Q<r<p< td=""><td>(d)</td><td>P<q<r< td=""></q<r<></td></r<p<></td></p<q<></td></p<r<>	(b) R <p<q< td=""><td>(c)</td><td>Q<r<p< td=""><td>(d)</td><td>P<q<r< td=""></q<r<></td></r<p<></td></p<q<>	(c)	Q <r<p< td=""><td>(d)</td><td>P<q<r< td=""></q<r<></td></r<p<>	(d)	P <q<r< td=""></q<r<>
85.	Dos	e dumping may be a g	eneral problem in the forn	nulat	ion of:		
	(a)	Soft gelatin capsules		(b)	Suppositories		
	(c)	Modified release drug	products	(d)	None		
86.	Cod	eine differ in structure	from morphine by:				
	(a)	N-methyl group		(b)	Acetyl group at C1 an	d C6	○) ≈
	(c)	-OC2H5 group		(d)	-OCH3 group		
87.	Isot	opes differ in:					
	(a)	The number of proto	ns	(b)	The valency number		
	(c)	The chemical activity		(d)	The number of neutr	ons	
88.	Arra	ange the given acids in	increasing order as per th	ne nu	ımber of carbons pres	ent i	n them
	(P)	Capric	(Q) Caprylic	(R)	Caproic	(D)	Lauric
	(a)	P <q<r<s< td=""><td></td><td>(b)</td><td>R<q<p<s< td=""><td></td><td></td></q<p<s<></td></q<r<s<>		(b)	R <q<p<s< td=""><td></td><td></td></q<p<s<>		
	(c)	R <q<p<s< td=""><td></td><td>(d)</td><td>Q<p<r<s< td=""><td></td><td></td></p<r<s<></td></q<p<s<>		(d)	Q <p<r<s< td=""><td></td><td></td></p<r<s<>		
89.	E1c	b (Elimination reaction	n via conjugate base) whic	h rea	action intermediate wi	ll for	m?
	(a)	Carbocation		(b)	Carbanion		
	(c)	Free radical		(d)	All		
90.	Wh	at are the three basic :	steps of conventional PCR				
	(a)	Denature, anneal, & St	trand displacement	(b)	Denature, anneal & e	xten:	sion

(c) Strand displacement, synthesis & release



(d) Reverse-Transcription, anneal & extend

91.	Rabies bodies are				
	(a) Negri bodies		(b)	Cowdry type B inclu	sion bodies
	(c) Cowdry type A inclus	ion bodies	(d)	Bollinge bodies	
92.	When glucose reacts with	bromine water, the main	produ	ıct is	
	(a) Glucaric acid	(b) Glucoronic acid	(c)	Sorbitols	(d) Gluconic acid
93.	Increase in melting temp	erature of DNA is due to h	igh co	ontent of	
	(a) A+T	(b) G+C	(c)	A+G	(d) T+G
94.	What will be the primary	product of the following i	reacti	on	
	CH ₃				
	HCI				
	(a)	(b) CH ₃	(c)		(d)
	CH ₃	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		CI	CH ₃
		CI	_		
					CL
95.	The mass spectrum of a	compound with an approx	ximat	te MW 137 shows to	w equally intense. peaks at
	m/z 136 and 138. What o	does the suggest			
	(a) The compound is alk	yl iodide	(b)	The compound is all	kyl bromide
	(c) The compound is alk	yl chloride	(d)	The compound is ar	yl fluoride
96.	Capping in tablets mainly	due to:			
	(a) Less upper punch pr	ressure	(b)	Poor flowability of g	granules
	(c) Proper formulation of	lesign	(d)	Entrapment of air in	tablet during compression
97.	How can we detect the rh	nizome from the root of th	e Rau	ıwolfia?	
	(a) By the presence of si	mall central pith	(b)	By the absence of sr	nall central pith
	(c) By the presence of v	ascular bundle	(d)	None	
98.	Drug of choice to treat H	1N1 influenza is			
	(a) Adefovir		(b)	Cidofovir	
	(c) Oseltamivir		(d)	Tenofovir	
99.	Identify the correct states	nent			
	(P) Condensed tannins a	re polymers flavans			
	(Q) Condensed tannins de	o not contain sugar redidu	ies		
	(R) Hydrolyzabletannis ar	re polymers of gallic acid o	or ella	igic acids	
	(S) Gallic acid and catech	nin are psedotannins			
	(a) Only Q		(b)	P and Q	
	(c) P, Q and R		(d)	P, Q, R and S	
100.	Quick breaking aerosols as	re applicable:			
	(a) Orally	(b) Parenterally	(c)	Topically	(d) Ophthalmically



101. In the Reimer-Tiemann reaction	Reacts with	phenol to give the ortho-formylated produc
(a) Carbene	(b)	Carbocation
(c) Carbanion	(d)	Free redical
102. Which of the following in not added	to chewing tablet	
(a) Gildant	(b)	Disintegrant
(c) Lubricant	(d)	Anitadhesive
103. Range of C=O stretching in enol is		
(a) 1800 cm ⁻¹	(b)	1710 cm ⁻¹
(c) 1685 cm ⁻¹	(d)	1655 cm ⁻¹
104. Match the following phytochemicals	with their source an	d use
(P) Shatavrin	(1) Buckwheat and o	itrus fruits, strengthens capillary walls
(Q) Resvertatrol	(2) Broccoli and cab	bage, protects against bladder cancer
(R) Glucosinolates	(3) Purple grape, and	i inflammatory, anticancer
(S) Rutin	(4) Asparagus, galac	togogue
(a) P-4, Q-3, R-2, S-1	(b)	P-4, Q-2, R-3, S-1
(c) P-3, Q-1, R-4, S-2	(d)	P-2, Q-3, R-4, S-1
105. Which RNA polymerase is the only	whose product are c	apped
(a) RNA polymerase I	(b)	RNA polymerase II
(c) RNA polymerase III	(d)	RNA pimase
106. Match the scientist awarded with N	obel prize with their	contributions
(P) Alexander Fleming	(1)	GPCR
(Q) Kobilka	(2)	β-blocker
(R) Banting	(3)	Penicillin
(S) Black	(4)	Insulin
(a) P-4, Q-3, R-2, S-1	(b)	P-4, Q-2, R-3, S-1
(c) P-3, Q-1, R-4, S-2	(d)	P-2, Q-3, R-4, S-1
107. Mean arterial pressure is http://w	ww.xamstudy.com	
(a) Systolic pressure – Diastolic P.	ressure (b)	(Diastolic pressure + Diastolic Prssure)/2
(c) Diastotic alcohol + $(1/3) \times pul$	se pressure (d)	Stroke valume X heart rate
108. Eugenol is		
(a) Monoterpene alcohol	(b)	Sesquiterpene alcohol
(c) Aliphatic alcohol	(d)	Phenylpropene
109. The Vitamin required for carboxyla	ion of pyruvate to fo	rm oxaloacetate is
(a) Thiamine (b) Bioti	n (c)	Pyridoxine (d) Niacin
110. Which of the following circled hydro	gen is most acidic	
(a) (b) (b)	(c) O O	(d) Q Q
QH3) H QH3) OCH3	CH ₃ C H	CH ₃ C OCH ₃



111.	The	drug formulated as suspension follows	orde	er reaction
	(a)	Zero	(b)	Pseudo Zero
	(c)	First	(d)	Pseudo first
112.	Whi	ch diuretic causes decrease in release of insulin		
	(a)	Chlorothiazide	(b)	Ethacynic zero
	(c)	Triamterene	(d)	Acetazolamide
113.	Mate	ch the following drugs with their mode of action		
	(P)	Methotrexate	(1)	Mitotic inhibitor
	(Q)	Cyclophosphamide	(2)	Antimetabolite
	(R)	Vincristine	(3)	Alkylating agent
	(S)	Dactinomycin	(4)	Intercalating agent
	(a)	P-4, Q-3, R-2, S-1	(b)	P-2, Q-4, R-1, S-3
	(c)	P-3, Q-1, R-4, S-2	(d)	P-2, Q-3, R-1, S-4
114.	Whi	ch compound would be expected to show intens	e IR	absorption at 3300 cm ⁻¹
	(a)	CH ₃ CH ₂ CH ₂ CH ₃	(b)	CH ₃ CH ₂ C=CH
	(c)	CH ₃ C=CCH ₃	(d)	CH ₂ CHCH ₂ CH ₃
115.	In th	ne carbon NMR, in what region of the spectrum o	loes	one typically observe carbons which are part of
	the	aromatic ring		
	(a)	-10-0 ppm	(b)	40-60 ppm
	(c)	80-100 ppm	(d)	120-150 ppm
116.	Мес	lofenamate belongs to which class of drug		
	(a)	Slicylates	(b)	Oxicams
	(c)	Aryl antaranillic acid	(d)	p-Amino phenols
117.	Mate	ch the following crude with their chemical constit	uent	is a second of the second of t
	(P)	Aloe	(1)	Hesperidine
	(Q)	Ginger	(2)	Palmitin
	(R)	Lemon peel	(3)	Barbaloin
	(S)	Olive oil	(4)	Allin
	(a)	P-4, Q-3, R-2, S-1	(b)	P-3, Q-4, R-2, S-1
	(c)	P-3, Q-4, R-1, S-2	(d)	P-3, Q-1, R-1, S-4
118.	Dop	amine agonists with tetralene function		
	(a)	Ropinorole	(b)	Pirebidil
	(c)	Pramipixole	(d)	Rotigotine
119.	The	IUPAC name of the compound- $(CH_3)_2$ CHC H_2 Cl:		
	(a)	2-methyl-3-chloropropane	(b)	1-chloro-3-mehtyl butane
	(c)	1-chloropentane	(d)	2-mehtyl-4-chlorobutane



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120. A powerful	munditor of	Stomatai	opening is

(a) Auxin

(b) Bytokinin

(c) Gibberellin

(d) Abscisic acid

121. What is the renal clearance of a substance, if its concentration in plasma is 10mg, concentration in urine is 100 mg and urine flow is 2 ml/min

(a) 0.02 ml/min

(b) 0.2 ml/min

(c) 2ml/min

(d) 20 ml/min

122. Aim of pharmacovigilance is

(a) To monitor drug toxicity

(b) To monitor unauthorized drug manufacture

(c) To monitor rational use of drugs

(d) To check and control drug costs

123. Phase zero studies is a/an

(P) Exploratory investigational new drug study

(Q) Human microdosingstudies

(R) Step to speed up drug discovery/ development process

(S) Mandatory by FDA

(a) P and Q

(b) Q and R

(c) P, Q and R

(d) P, Q, R and S

124. Parenteral product must be:

(a) Packed in bottle

(b) Sterilized

(c) Free from viable/living organism

(d) Pyrogenic

125. Quinine present in highest amount in:

(a) C. calisaya

(b) C. officinalis

(c) C. ledgeriana

(d) C. succirubra

End of paper

ANSWER KEY GPAT 2014

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

