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GPAT 2014 Question Paper with Answer Key

Graduate Pharmacy Aptitude Test conducted by NBEMS

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GPAT QUESTION PAPER 2014 WITH ANSWER KEY

GPAT QUESTIONS

1.	, system does	s not have ornice to release	e the	arug.	
	(a) Elementary Osmotic	Pump	(b)	L-OROS	
	(c) Sandwich Osmotic P	ump Tablet	(d)	Controlled Porosity O	Smotic Pump Tablet
2.	In which rearrangement	reaction, Isocyanate is for	med?		
	(a) Curtious	(b) Lossen	(c)	Both A & B	(d) None
3.	Chitin gets converted in t	to Chitosan upon:			
	(a) Acetylation	(b) Deacetylation	(c)	Oxidation	(d) Reduction
4.	All of the following are le	af constants EXCEPT			
	(a) Vein-islet number		(b)	Vein-termination nu	umber
	(c) Stomatal number		(d)	Leaf fiber	
5.	Zink chloride is added to	mouth wash because it act	s as		
	(a) Fragrance	(b) Astringent	(c)	Cooling agent	(d) Antibacterial
6.	The choice of route of ad	lministration plays an impo	rtant	role in action of direc	tly acting cholinomimetic
	Adverse effect of chol	ine esters that may be	avoid	ded by selection of	an appropriate route o
	administration is				
	(a) Bradycardia	(b) Hypotension	(c)	Delirium	(d) Sweating
7.	Sieve size 80 has openin	g of			
	(a) 0.100 mm	(b) 0.125 mm	(c)	0.150 mm	(d) 0.180 mm
8.	The ideal saponification	value for suppository base	is		
	(a) 50-100	(b) 100-150	, ,	150-200	(c) 200-500
9.	•	lifferentiated on the basis o	of:		
	(a) Chemical shift		(b)	Coupling constant	
	(c) Extinction coefficien			Dipole moment	
10.		rug comes under Schedule	C_{1}		
	(a) Opium	(b) Ergot	(c)	Fish liver oil	(d) Insulin
11.	Source of amla is				
	(a) Phyllanthus inruri			Terminiliachebub	
	(c) Terminalia Bacteria		(d)	Embika officinalis	
12.	What is the unit of dielec	tric constant			
	(a) Dyne	(b) Debey	(c)	Farad/meter	(d) No Unit
13.	Monitoring of plasma dru	ug concentration is require	d wh	ile using:	
	(a) Antihypertensive dr	ugs	(b)	Levodopa	
	(c) Lithium carbonate		(4)	MAO inhibitors	

14.	Of the following antibiotics, which one would be	acceptable to use when	treating penicillin resistant
	S. pnumoinae otitis media	(a) Cofinavima	(d) Cofaclar
15	(a) Azithromycin (b) Clarithromycin	(c) Cefuroxime	(d) Cefaclor
15.	Addtion of which of the following to a large volume		advised
	(a) Active pharmaceutical ingredient	(b) Preservatives	
	(c) Buffering agens	(d) Tonicity adjusters	
16.	A drug suspension decomposes by zero-order k		stant of 2 mg mL ⁻¹ month ⁻¹
	if the initial concentration is 100 mg mL ⁻¹ what is t	he shelf life	
	(a) 2 months (b) 3 months	(c) 4 months	(d) 5 months
17.	Sanguinarine belongs to the subgroup of:		
	(a) Morphinans	(b) Benzyl isoquinolii	nes
	(c) Phthalide isoquinolines	(d) Benzophenanthre	enes
18.	Antidote for paracetamol overdosing is		
	(a) Atropine (b) N-Acetly cysteine	(c) Glutathione	(d) Theophylline
19.	Which one of the following drug combination is co	ntraindicated	
	(a) Glyceryl trinitrate and sildenafil	(b) Amoxicillin ar	nd clavulanic acid
	(c) Losartan and hydrochlorothiazide	(d) Pyrimthemaine ar	nd sulfadoxine
20.	Which sugar is suitable for diabetic patient	.,,	
	(a) Fructose (b) Lactose	(c) Mannitol	(d) Sucralose
21.	Headquarter of Bureau of Indian standards is situa	` '	
	(a) New delhi (b) Mumbai	(c) Kolkata	(d) Chennai
22.	Identity the structure of barbituric acid		
	0		
	(a) (b) (c)	O. H (d)	
	NH NH	NH	
			N/
	- III - O H O		о н о
23.	Ehtics for pharmacist are put forth by		
	(a) PCI (b) CDSCO	(c) AICTE	(d) WHO
24.	What is the IUPAC name of the following compou	ınd	
	✓		
	(a) Bicyclo[2.2.2] octane	(b) Tricyclo[2.2.2] or	ntane
	(c) Bicyclo[2.2.0] ontane	(d) Bicyclo [2.2.1] he	eptanes

25.	Morphine	does not cause	::				
	(a) Constr	riction of pupil		(b)	CNS depression		
	(c) Respir	atory depress	ion	(d)	Diarrhoea		
26.	Which of t	he following is	seed gum				
	(P) Gaur g	gum		(Q)	Locust bean gum		
	(R) Xantha	an 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 f	orm ectoderm of endoderm	of e	oithelial cells is		
	(a) Carcin	oma	(b) Sarcoma	(c)	Leukaemia	(d)	Myloid
28.	Which of t	he following is	/are marine anticancer				
	(a) Trabe	ctadine		(b)	Eribulin		
	(c) Cytara	bine		(d)	All of the above		
29.	Identity the	e compound w	hich is derived form typtop	han			
	(a) Piloca	rpine	(b) Ephedrine	(c)	Muscarine	(d)	Quinoline
30.	Opium, coo	coa, poppy stra	w are given in				
	(a) Sched	ule H					
	(b) Sched	ule X					
	(c) Narco	tic drugs and I	sychotropic substances ac	199	8		
	(d) Sched	ule C					
31.	Which of the	he following w	ill be inert in NMR spectroi	netry	7		
	(a) 13C		(b) 31P	(c)	2H	(d)	1H
32.			between keto and enol taut				
		ance forms			Steriosomers		
	(c) Consti	tuonal isomer:	S	(d)	Different conformation	ns o	f the same compound
33.	Which of the	he following is	following is true for natura	l kilk	er cells		
	(a) They i	nay phagocyto	se tumor cells				
	(b) Killing	g of cells is enh	anced by interleukin-2				
	(c) They r	recognize and l	kill some virus-infected cell	s			
	(d) Killing	g of cells is stim	ulated by prostaglandin E2				
34.	Evaluation	of colour is tal	blets is done by				
	(a) Reflect	ance spectrop	hotometer	(b)	Tristimulus colorimet	er	
	(c) Micron	reflectance pho	otometer	(d)	All of the above		
35.	The disinte	egration time o	of the effervescent tablets is				
	(a) 2 minu	utes	(b) 2.4 minutes	(c)	3.5 minutes	(d)	5 minutes

36.	Identify the false statements	about magmas:				
	(P) The addition of suspend	ling agents to magmas i	s alw	ays necessary		
	(Q) Magmas differ from gel	s in that their suspende	d par	ticles are larger		
	(R) Magmas are two- phase	systems				
	(S) Magmas basically are go	ets				
	(a) P and Q (1	o) Q and R	(c)	Only P	(d)	Only S
37.	All of the following ACE inh	ibitors are prodrugs EX0	СЕРТ			
	(a) Ramipril (1	o) Lisinopril	(c)	Enalapril	(d)	Perindopril
38.	All of the following is resista	ant to both true and pse	udo o	cholinesterase enzyme	S	
	(a) Carbachol		(b)	Acetykholine		
	(c) Methacholine		(d)	Pilocarpine		
39.	Globule size of parenteral en	nulsion should be				
	(a) $0.1 \text{ to } 0.5 \mu\text{m}$	o) 0.5-5 μm	(c)	5-10 μm	(d)	Any of the above
40.	The objective of audit is to					
	(a) Improve the product qu	ıality	(b)	Find out the fault		
	(c) Improve the product va	lue	(d)	Find and process fau	lt and	d to improve
41.	is an alkaloid derived	d form aliphatic amino a	icid			
	•	o) Nicotinic acid	(c)	Anabasine	(d)	Vinblastine
42.	The drug sulphan blue is ob		urce			
	` `	b) Animal	(c)	Synthetic	(d)	Mineral
43.	In mammals, The major fat i	n adipose tissue is: ht	•	www.xamstudy.com		
	(a) Triglyceride			Cholesterol		
	(c) Sphingophospholipids		(d)	Phospholipids		
44.	Dovers powder used as a di	aphoretic contains:				
	(a) Ipecac & Opium		(b)	Ipecac, Senna & Cinch	iona	
	(c) Opium, Ipecac & Cincho	na	(d)	All		
45.	Biological active form of Vit	D in man is:				
	(a) Cholecalciferol		(b)	Calcifediol		
	(c) Cakiferol		(d)	Calcitriol		
46.	Actions and clinical uses of	muscarinic cholinocepto	r ago	onists include which on	of th	ne following
	(a) Bronchodilation (asthar	na)				
	(b) Improved aqueous hum	ior drainage (glaucoma)				
	(c) Decreased gastrointesti	,				
	(d) Decreased neuromuscul	ar transmission and rela	xatio	on of skeletal muscle (D	uring	g surgical anesthesia)

47	December 11 and a few factors to the classical and a second			
47.	Regarding the role of surfactants in pharmaceutic following statements is false	cai su	spensions for oral ad	ministration which of the
	(a) Surfactants decrease the water contact angle of	diene	ureed drug particle	
	(b) Surfactants promote flocculation	шэрс	rised all ag particle	
	(c) Surfactants with high HLB stabilize oral suspens	sione		
	(d) Surfactants increase the viscosity of the continu			ral cuenoncione
48.	Which of the following drug is NOT used in treatmer		•	car suspensions
10.	(a) Ampicillin		Chrithromycin	
	(c) Mosapride	` '	Bismuth subgallate	
49.	The most suitable disinfectant for decontamination of	. ,		rone is
10.	(a) 1% Sodium hypochlorite		2% Glutaraldehyde	ope is
	(c) 5% phenol	` '	70% ethanol	
50.	Which rule does provide the most accurate method			ld based on adult dose
	(a) Age is months		Age in years	
	(c) Weight in pounds		Body surface area	
51.		()	,	
	(a) Enfuvirtide	(b)	Maraviroc	
	(c) Raltegravir	` '	Atazanavir	
52.	The Franz diffusion cell which is used for the evalua			livery systems consists of:
	(a) 1 chamber (b) 2 chamber		3 chamber	(d) None
53.	Whick of the following plastic is transparent and flet	exible		
	(a) Silicon rubber (b) PVP	(c)	HDPED	(d) PE
54.	In which method an order of a fixed number of ite	ems is	placed every time an	inventory level falls to a
	predetermined point		. ,	,
	(a) A-B-C method	(b)	Maximum and minim	um method
	(c) Open-to-buy method	(d)	Economic order quan	tity
55.	Choose the option with two reducing sugars		-	•
	(a) Lactose and maltose	(b)	Trehalose and surcro	ese
	(c) Maltose and tredhalose	(d)	Economic order quan	tity
56.	The Local anesthetic with highest cardiotoxicity is			
	(a) Lingocaine	(b)	Bupivacaine	
	(c) Levo- bupivacaine	(d)	Procaine	
57.	Homatropine is			
	(a) Tropine ester of amino acetic acid	(b)	Tropine ester of men	delic acid
	(c) Tropine methyl bromide ester of mendelic acid	(d)	Tropine ester of amin	o formic acid
58.	Tranexamic acid is			
	(a) Antithrombotic (b) Antifibrinolytic	(c)	Fibrinolytic	(d) Styptic

59.	Which of the antihistaminic compound has antia	drogenic effect
	(a) Famotidine	(b) Ranitidine
	(c) Nizatidine	(d) Cimetidine
60.	Which of the following drug is used prefenntially	as preanesthetic mediation
	(a) Midazolam	(b) Oxazepam
	(c) Alprazolam	(d) Nitrozepam
61.	Proton pump inhibitors are most effective when	given
	(a) Half hour before meak	(b) With meal
	(c) After prolonged fasting	(d) Along with H2 blockers
62.	Match compounds is Group I with inhibitory activ	rities in Group II
	Group I	Group 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.	Formation of Okazaki occurs in	
	(a) Transcription	(b) Replication
	(c) Translation	(d) Reverse Transcription
64.	Drug used in ventricular arrhythmia is	
	(a) Flecainide	(b) Verapamil
	(c) Esmolol	(d) Diltazem
65.	The lipoprotein with the fastest electrophoretic r	nobility 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 animal toxicity study requirements for marketing of
	a drug depends upon tentative route and duration	of administration in humans. In This context , which one $% \left(x\right) =\left(x\right) ^{2}$
	of the following statements is incorrect	
	(a) Single dose human use-animal toxicity for 2	weeks in 2 species
	(b) Oral use for 2 weeks in humans- animal tox	city for 4 week in 2 species
	(c) Aerosol use by repeated use in humans- ani	mal toxicity for 24 weeks in 2 species
	(d) Multiple daily ocular application for short du	ration-iregation test in 1 species for 3 weeks
67.		autoclave, the spores of the following organism are used
	as test organisms	(b) Chatridium vefrir
	(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 pos	itive
69.	List of drugs whose import, manufacture and sale, labe	ling	and packaging are governe	d by special provisions
	are included in schedule:			
	(a) X (b) K	(c)	Н	(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 their	tric	home	
	(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	tion	of citric acid to isoctiric acid	this step is necessary
	because			
	(a) Oxidation of secondary alcohols is very difficult			
	(b) Reduction of secondary alcohol is very impossible	ole		
	(c) Reduction of tertiary alcohols would require a v	ery p	oowerful oxidizing agent	
	(d) Oxidation of tertiary alcohols would require oxid	dizin	g agents	
75.	Which of the following alkyl halides would undergo S	SN2	reaction most rapidly	
	(a) CH ₃ CH ₂ -BR	(b)	$\mathrm{CH_{3}CH_{2}\text{-}CL}$	
	(c) CH ₃ CH ₂ -I	(d)	CH_3CH_2 -F	
76.	Mechanism of action of Ketoconazole is:			
	(a) Inhibits Ergosterol synthesis	(b)	Inhibits DNA gyrase	
	(c) Inhibits dihydropteroate synthetase	(d)	Induces translation misre	ading
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	e relative lowering of v	apour pressure is given by	7			
	, ,	Raoult's law	(b) Henry's law	, ,	Boyle's law	(d)	Charles law
81.		-	oup present in meprobama				
	` '	Amide	(b) Ester	(c)	Carbamic	(d)	Lactam
82.		tch the following					
	(P)	Gypsum salt		(1)	$KAI(SO_4)_2 \cdot 12H_2O$		
	(Q)	Epson salt		(2)	$FeSO_4 \cdot 7H_2O$		
	(R)	Alum		(3)	$CaSO_4 \cdot 2H_2O$		
	(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.	Tin	ea capitis is ringworm	infection of				
	(a)	Feet	(b) Groin	(c)	Head	(d)	Nails
84.	Ran	ik the following compou	ınds is order of increasing re	activ	ity in electrophilic arom	atic	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.			eneral problem in the form				
		Soft gelatin capsules		(b)	Suppositories		
		Modified release drug	· -	(d)	None		
86.		leine differ in structure	from morphine by:				
		N-methyl group		, ,	Acetyl group at C1 an	d C6)
		-OC2H5 group		(d)	-OCH3 group		
87.		topes differ in:					
	. ,	The number of proto	ns	. ,	The valency number		
		The chemical activity		` ′	The number of neutro		
88.			increasing order as per th		•		
		Capric	(Q) Caprylic		Caproic	(D)	Lauric
	` '	P <q<r<s< td=""><td></td><td>, ,</td><td>R<q<p<s< td=""><td></td><td></td></q<p<s<></td></q<r<s<>		, ,	R <q<p<s< td=""><td></td><td></td></q<p<s<>		
00	. ,	R <q<p<s< td=""><td>on out a country make the conditional to the</td><td>. ,</td><td>Q<p<r<s< td=""><td>11.6</td><td>2</td></p<r<s<></td></q<p<s<>	on out a country make the conditional to the	. ,	Q <p<r<s< td=""><td>11.6</td><td>2</td></p<r<s<>	11.6	2
89.			n via conjugate base) whic			II for	m?
		Carbocation		` ,	Carbanion		
00		Free radical	-t	(d)	All		
90.			steps of conventional PCR	(I-)	Danatura 1.0	- -	
		Denature, anneal, & S	•	` ′	Denature, anneal & e		
	(c)	Strand displacement,	synthesis & release	(d)	Reverse-Transcription	n, an	neal & extend

91. Rabies bodies are

(a) Negri bodies

- (b) Cowdry type B inclusion bodies
- (c) Cowdry type A inclusion bodies
- (d) Bollinge bodies

92. When glucose reacts with bromine water, the main product is

- (a) Glucaric acid
- (b) Glucoronic acid
- (c) Sorbitols
- (d) Gluconic acid

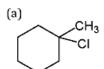
93. Increase in melting temperature of DNA is due to high content of

(a) A+T

(b) G+C

- (c) A+G
- (d) T+G

94. What will be the primary product of the following reaction







95. The mass spectrum of a compound with an approximate MW 137 shows tow equally intense. peaks at m/z 136 and 138. What does the suggest

(a) The compound is alkyl iodide

(b) The compound is alkyl bromide

- (c) The compound is alkyl chloride
- (d) The compound is aryl fluoride

96. Capping in tablets mainly due to:

(a) Less upper punch pressure

(b) Poor flowability of granules

(c) Proper formulation design

(d) Entrapment of air in tablet during compression

97. How can we detect the rhizome from the root of the Rauwolfia?

- (a) By the presence of small central pith
- (b) By the absence of small central pith
- (c) By the presence of vascular bundle
- (d) None

98. Drug of choice to treat H1N1 influenza is

(a) Adefovir

(b) Cidofovir

(c) Oseltamivir

(d) Tenofovir

99. Identify the correct statement

- (P) Condensed tannins are polymers flavans
- (Q) Condensed tannins do not contain sugar redidues
- (R) Hydrolyzabletannis are polymers of gallic acid or ellagic acids
- (S) Gallic acid and catechin are psedotannins
- (a) Only Q

(b) P and Q

(c) P, Q and R

(d) P, Q, R and S

100. Quick breaking aerosols are applicable:

- (a) Orally
- (b) Parenterally
- (c) Topically
- (d) Ophthalmically

101 In the Deimen Tiemann vesetion	Decete with whomel to give the outher formulated woodust
* *	* *
.,	(u) Alliaulicsive
	(b) 1710 cm ⁻¹
0	
* *	
	•
(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://www.x	amstudy.com
(a) Systolic pressure – Diastolic Pressu	re (b) (Diastolic pressure + Diastolic Prssure)/2
(c) Diastotic alcohol + $(1/3)$ × pulse pro	essure (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 carboxylation of	of pyruvate to form oxaloacetate is
(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 07. Mean arterial pressure is http://www.xamstudy.com (a) Systolic pressure – Diastolic Pressure (b) (Diastolic pressure + Diastolic Pressure)/2 (c) Diastotic alcohol + (1/3) × pulse pressure (d) Stroke valume X heart rate 08. Eugenol is (a) Monoterpene alcohol (b) Sesquiterpene alcohol	
110. Which of the following circled hydrogen i	s most acidic
(a) O (b) O ∥	
GHE H CHE OCH	CH3 CH3 CH3 CH3

111	The drug for	ormulated as suspension follows	orde	ar reaction
111.	(a) Zero	ormulated as suspension follows		
	(c) First		, ,	Pseudo Zero Pseudo first
112	. ,	etic causes decrease in release of insulin	(u)	rseddo IIIst
112.			(h)	Ethaarmiagana
	(a) Chlorot			Ethacynic zero
440	(c) Triamt		(a)	Acetazolamide
113.		ollowing drugs with their mode of action	(4)	A
	(P) Methot			Mitotic inhibitor
		hosphamide	(2)	
	(R) Vincris			Alkylating agent
	(S) Dactino	•		Intercalating agent
	(a) P-4, Q-3	3, R-2, S-1	(b)	P-2, Q-4, R-1, S-3
	(c) P-3, Q-1	1, R-4, S-2	(d)	P-2, Q-3, R-1, S-4
114.	Which com	pound would be expected to show intens	e IR	absorption at 3300 cm ⁻¹
	(a) CH ₃ CH ₂	₂ CH ₂ CH ₃	(b)	CH ₃ CH ₂ C=CH
	(c) CH ₃ C=0	CCH ₃	(d)	$\mathrm{CH_2CHCH_2CH_3}$
115.	In the carbo	on NMR, in what region of the spectrum	does	one typically observe carbons which are part of
	the aromati	ic ring		
	(a) -10-0 p	ppm	(b)	40-60 ppm
	(c) 80-100	ppm	(d)	120-150 ppm
116.	Meclofenan	nate belongs to which class of drug		
	(a) Slicylat	es	(b)	Oxicams
	(c) Aryl an	taranillic acid	(d)	p-Amino phenols
117.	Match the fo	ollowing crude with their chemical consti	tuen	ts
	(P) Aloe		(1)	Hesperidine
	(Q) Ginger		(2)	Palmitin
	(R) Lemon	peel	(3)	Barbaloin
	(S) Olive o	•	(4)	Allin
	(a) P-4, Q-3	3, R-2, S-1		P-3, Q-4, R-2, S-1
	(c) P-3, Q-		` '	P-3, Q-1, R-1, S-4
118.		agonists with tetralene function	, ,	
	(a) Ropino		(b)	Pirebidil
	(c) Pramip		` ,	Rotigotine
119		name of the compound-(CH ₃) ₂ CHCH ₂ Cl:	()	
		nyl-3-chloropropane	(b)	1-chloro-3-mehtyl butane
	* *	opentane	7 .	2-mehtyl-4-chlorobutane
	(c) 1-cilioi	openane	(u)	2 mengra emorobudite

120. A powerful inhibitor of stomatal 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-с	3-b	4-d	5-b	6-b	7-d	8-c	9-b	10-с
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-c	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-с	124-b	125-с					