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GPAT 2015 Question Paper with Answer Key

Graduate Pharmacy Aptitude Test conducted by NBEMS

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GPAT QUESTION PAPER 2015 WITH ANSWER KEY

GPAT QUESTIONS

1.	Which type of alkaloid is p	procent in Vince?				
1.	(a) Ergot	(b) Tropane	(c)	Indole	(4)	Quinoline
2.	What is the biological sou		(0)	maore	(u)	Quinoinie
2.	(a) Cassia aungustifolia	ince of Alexandrian Senna	ക	Cassia acutifolia		
	(c) Cassia Bravifolia			Cassia Nerifolia		
2		out the Detrectium Sparing				
3.	(a) Milrinone	out the Potassium Sparing (b) Thiazide			പ	Amiliarida
Л			(0)	Spironolactone	(u)	Amilioride
4.	How the wetting agent ac	-	. .			
	• •	e between substance and s				
		between substance and so				
		angle between substance a	ina s	olvent		
-	(d) None of the above					
5.	Which phase of suspensio					Carlana
	(a) Cracking	(b) Creaming		Phase Inversion	(a)	Coalscence
6.	2	o called as 'Pink Eye' infect			<i>(</i>)	. .
_	(a) Fungal keratitis	(b) Viral keratitis	(c)	Conjunctivitis	(d)	Myopia
7.	Match compounds with th	e pathway they inhibit				
	(1) Vancoycin		(P)	Folate metabolism		
	(2) Rifampin			DNA synthesis		
	(3) Puromycin			Protein synthesis		
	(4) Ciprofloxacin		(S)	RNA synthesis		
			(T)	•		
	(a) 1-T, 2-S, 3-R, 4-Q	(b) 1-R, 2-S, 3-T, 4-P	(c)	1-Q, 2-R, 3-T, 4-Q	(d)	1-T, 2-Q, 3-P, 4-S
8.	The given reaction in an e					
	(a) Arndt-Eistert homolog	gation	(b)	Mannich reaction		
	(c) Michael addition		(d)	Chichibabin aminatio	n rea	action
9.	What is the 6-methyl deri	vative of erythromycin				
	(a) Azithromycin	(b) Roxithromycin	(c)	Clarithromycin	(d)	Clindamycin
10.	In the diagnosis of myast	henia gravis, only one of th	ne fo	llowing drugs will be ι	ised	as a drug of choice
	(a) Neostigmine	(b) Pyridostigmine	(c)	Physostigmine	(d)	Edrophoinum
11.	Methyl [5(proopylthio)-1	H-benzoimidazol-2yl] carba	amat	te is Geneva name of w	hich	of the following drug
	(a) Mebendazole	(b) Albendazole	(c)	Thibendazole	(d)	Triclabendazole
12.	Which of the following is	oil of fruit pulp				
	(a) Arachis oil	(b) Castor oil	(c)	Olive oil	(d)	Apricot oil



13.	What is true about bioavailability				
	(a) Amount of unbound drug (Free drug reaching s	syste	mic circulation)		
	(b) Amount of bound Drug				
	(c) Amount of metabolite drug				
	(d) Amount of Excreted Drug				
14.	Polymorphs in pharmaceutical solids are detected by	y wh	ich technique		
	(a) MS (b) LC-MS	(c)	Solid state NMR	(d)	Coulter counter
15.	A series of α - acylureido penicillin's like azlocillin, m	nezlo	acillin, and piperacilli	n are	superior because of
	(a) Reduced acid hydrolysis	(b)	Increased β - lactmas	e res	istance
	(c) Improved penetration through the cell envelop $% \left({{\mathbf{r}}_{i}} \right)$	(d)	Slow rate of metaboli	sm	
16.	Bacillus subtilis is used in assay of which antibiotics				
	(a) Penicillin (b) Cephalosporin	(c)	Vancomycin	(d)	Streptomycin
17.	Which of the following titrations will always have an	equ	ivalence point at a pH	> 7.0	00
	(a) Weak acid with a weak base	(b)	Strong acid with a we	ak b	ase
	(c) Weak acid with a strong base	(d)	None of the above		
18.	Inadequate drying during coating of tablet leads to whether the state of tablet leads to whether the state of tablet leads to whether the state of tablet leads to whether tablet leads tablet leads tablet leads to whether tablet leads table	hich	coating defect		
	(a) Chipping (b) Lamination	(c)	Mottling	(d)	Lamination
19.	Match the crude drug with its biological source				
	(1) Pale catechu	(P)	Conium naculatum		
	(2) Clove	(Q)	Cymapsistetragonolo	ba	
	(3) Gaur bean	(R)	Uncariagambir		
	(4) Hemlock	(S)	Syzygiumaromaticum	1	
	(a) 1-Q, 2-P, 3-S, 4-R (b) 1-Q, 2-S, 3-R, 4-P	(c)	1-R, 2-S, 3-Q, 4-P	(d)	1-R, 2-S, 3-P, 4-Q
20.	Which of the following plot indicates the effects of an	ntago	onist on receptors		
	(a) Michaelis-Menten plots	(b)	Line weaver burk Plo	ts	
	(c) Displacement plots	(d)	Schild plots		
21.	All of the following statements concerning zero-orde	r deg	gradation are true exce	ept	
	(a) Its rate is independent of the concentration				
	(b) A plot of con Vs time gives a straight line on rea	ctilir	tear paper and a slope	is a	rate constant
	(c) Its half-life is a changing parameter				
	(d) Its concentration remains unchanged with respe	ctto	time		
22.	The liquefaction time of cocoa butter of hydrogenate	ed ve	egetable oil based supp	oosita	ories is
	(a) 30-50 min	(b)	30-40 min		
	(c) 11-17 min	(d)	3-7 min		
23.	Which of the following is most likely to undergo lysis	5			
	(a) A cell losing water from its cytoplasm				
	(b) A cell with inact, multilayer peptidoglycan cell wa	all			
	(c) A cell with disturbed pentaglycine bridges in its of	cell v	vall		
	(d) A cell a hydrophilic outermost layer in its cell wa	all			



- 24. Match the drugs with the disease for which it is prescribed
 - (1) Bedaquline
 - (2) Sitagliptin
 - (3) Mexilitine
 - (4) Paraoxitine
 - (a) 1-S, 2-P, 3-Q, 4-R
 - (c) 1-Q, 2-P, 3-R, 4-S
- 25. Which micro-organism used in hairy root culture
 - (a) Agrobact rhiaogens
 - (c) N. tabacum
- 26. Delayed disintegration in tablet is a result of
 - (a) Large force of compression
 - (c) Higher amount of granule
- 27. Match drugs with their receptor that they inhibit
 - 5HT_{1A} agonist
 - (2) 5HT₃ antagonist
 - (3) 5HT_{2A} antagonist
 - (4) 5HT₄agonist
 - (a) 1-S, 2-R, 3-Q, 4-P
 - (c) 1-Q, 2-R, 3-T, 4-Q
- 28. Passive immunity in new born babies is due to

- (P) Anitdiabetic
- (Q) Anitiarrrhythmic
- (R) Antidipressant
- (S) Antituberualr
- (b) 1-S, 2-P, 3-Q, 4-R
- (d) 1-R, 2-S, 3-P, 4-Q
- (b) A. tumefaciens
- (d) Solanum chrysotrichum
- (b) Small force of compression
- (d) Low amount of granule
- (P) Cisapride
- (Q) Ketanserine
- (R) Ondensetron
- (S) Buspiron
- (b) 1-R, 2-S, 3-T, 4-P
- (d) 1-T, 2-Q, 3-P, 4-S
- (c) IgE (d) IgA (b) IgM 29. Upper consolute temperature and lower consolute temperature are related to (b) Kraft Temp
 - (d) Absolute temp
- 30. Compact size, low weight mass instrument is:
 - (a) EI-TOF

(a) CMC temp (c) Cloud temp

(a) IgG

(c) MALDI-TOF

(d) Ion-Trap

(b) MALDI-Quadrapole

31. A Pharmaceutical company plans to market a generic version of a drug produce whose patent has expired has expire (d) Which type of documentation must be submitted to the FDA

- (a) IND
- (d) SNDA & Letter of intent (c) ANDA
- 32. Which of the following does not produce azeotropic mixture with water
 - (a) Methanol (b) Ethanol
 - (c) Propanol (d) Isopropanol
- (b) NDA



	Eas a particular dung the rate of abcountion k	with not the extent of the charmition of CIT is offected by
55.		out not the extent of the absorption of GIT, is affected by
	presence of food in GIT then taking the drug w	
	(a) Smaller area under the plasma drug concer	
	(b) Smaller maximal plasma drug concentratio	
	(c) Smaller time at which the maximal plasma	_
	(d) Smaller fractional bioavailability and total	clearance
34.	According to USP Alcohol contains	
	(a) 94.9 to 96% Ethanol	(b) 94.9 to 96% Methanol
	(c) 50% Ethanol	(d) 50% Methanol
35.	What does in mean that a cell is polyploid	
	(a) That is contains more than 2 copies of one	e or a few of its of chromosomes
	(b) That is contains more than 2 copies of a f	ull set of homologous chromosomes
	(c) That is contains more than 2 copies of its	sex chromosome
	(d) That is contains more than 2 copies of its	autosomal chromosomes
36.	Amount of dextrose in large volume infusion flu	aids
	(a) 5% w/v	(b) 10% w/v
	(c) 25% w/v	(d) 50% w/v
37.	, Anthelmintics having Immunosup	pressant activity.
	(a) Piperazine (b) Levamisole	(c) Ivermectin (d) Niclosamide
38.	Choose correct statement for PEGylation: htt	p://www.xamstudy.com
	(A) Used to enhance in vive half life of smaller	Dontidos and nuotoina
	(A) Used to enhance In-vivo half-life of smaller	repudes and proteins
	(B) Avoidance of Reticulo-endothelial (RES) ck	
	(B) Avoidance of Reticulo-endothelial (RES) ck	
39.	(B) Avoidance of Reticulo-endothelial (RES) ck(C) Reduce clearance rate through kidney	earance
39.	(B) Avoidance of Reticulo-endothelial (RES) ck(C) Reduce clearance rate through kidney(D) All	earance
39.	(B) Avoidance of Reticulo-endothelial (RES) ck(C) Reduce clearance rate through kidney(D) AllCharacteristics feature if hemorrhagic dengue	fever is
	 (B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors 	fever is (b) Reduction in RBC count
	 (B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ ,
	 (B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ ,
40.	 (B) Avoidance of Reticulo-endothelial (RES) cke (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak where as the carbonyl stretching frequency for (a) 1650 (b) 1700 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ , r esters is about cm ⁻¹
40.	 (B) Avoidance of Reticulo-endothelial (RES) cke (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak where as the carbonyl stretching frequency for (a) 1650 (b) 1700 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ , r esters is about cm ⁻¹ (c) 1750 (d) 1850 idual amounts of Cu ²⁺ and Cd ²⁺ in a given mixture of the two
40.	 (B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak where as the carbonyl stretching frequency for (a) 1650 (b) 1700 Plarographic method of analysis to obtain indivision 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ , r esters is about cm ⁻¹ (c) 1750 (d) 1850 idual amounts of Cu ²⁺ and Cd ²⁺ in a given mixture of the two
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40. 41.	 (B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak where as the carbonyl stretching frequency for (a) 1650 (b) 1700 Plarographic method of analysis to obtain indivisions (Cu2+ and Cd2+) is achieved by measuring (a) Half-wave potentials 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ , r esters is about cm ⁻¹ (c) 1750 (d) 1850 idual amounts of Cu ²⁺ and Cd ²⁺ in a given mixture of the two ng their (b) Migration currents
40. 41.	 (B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak where as the carbonyl stretching frequency for (a) 1650 (b) 1700 Plarographic method of analysis to obtain indivious (Cu2+ and Cd2+) is achieved by measuring (a) Half-wave potentials (c) Decomposition potentials 	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ , r esters is about cm ⁻¹ (c) 1750 (d) 1850 idual amounts of Cu ²⁺ and Cd ²⁺ in a given mixture of the two og their (b) Migration currents (d) Diffusion currents
40. 41.	(B) Avoidance of Reticulo-endothelial (RES) ck (C) Reduce clearance rate through kidney (D) All Characteristics feature if hemorrhagic dengue (a) Reduction in platelet count (c) Reduction in coagulation factors The carbonyl starching frequency for simple ak where as the carbonyl stretching frequency for (a) 1650 (b) 1700 Plarographic method of analysis to obtain indivi- ions (Cu2+ and Cd2+) is achieved by measurin (a) Half-wave potentials (c) Decomposition potentials Consider the reaction: $A+B \rightleftharpoons C$	fever is (b) Reduction in RBC count (d) Increased RBC dehydes, ketones, and carboxylic acids is about 1710 cm ⁻¹ , r esters is about cm ⁻¹ (c) 1750 (d) 1850 idual amounts of Cu ²⁺ and Cd ²⁺ in a given mixture of the two og their (b) Migration currents (d) Diffusion currents



43.	, system does not have orifice to re	lease the drug.	
	(a) Elementary Osmotic Pump	(b) L-OROS	
	(c) Sandwich Osmotic Pump Tablet	(d) Controlled Porosit	ty Osmotic Pump Tablet
44.	Sanguinarine belongs to the subgroup of:		
	(a) Morphinans	(b) Benzyl isoquinoli	nes
	(c) Phthalide isoquinolines	(d) Benzophenanthre	enes
45.	Identify the IUPAC of dexamethasone		
	(a) 2-Chloro-6α, 9α-difluoro-11α, 17, 21-trihy	droxy-16 α -methylpregna-1,	4-dien-3, 20-dione
	(b) 9α -Fluoro-11 β , 17 α , 21-trihydroxy-16 β -me	ethylpregna-1, 4-diene-3, 20)-dione
	(c) 9α -Fluoro-11 β , 17 α , 21-trihydroxy-16 β -me	ethylpregna-1, 4-diene-3, 20)-dione
	(d) 6α -Fluoro-11 α , 21-dihydroxy-16 α -methylp	oregna-1, 4-diene-3. 20-dior	ne
46.	Tamoxifen is nonsteroidal drug acting at steroid	d receptor(s) It produces wh	nich type of effects
	(P) Androgen	(Q) Antiestrogen	
	(R) Antiprogestogen	(S) Estrogen	
	(a) P and Q (b) Q and S	(c) Q and R	(d) R and S
47.	Which enzymes is used by the HIV to form DNA	A in the host cell	
	(a) Restriction endonuclease	(b) DNA-directed po	lymerase only
	(c) Reverse transcriptate only	(d) Both (b)and (c)	
48.	'Sparging' is the process where		
	(a) Silanol groups react with trimethylsilyl groups	up	
	(b) An inert has is bubbled through the solven	nt reservoir to remove disso	lved gases
	(c) Solvents are mixed together in a fixed ratio)	
	(d) Column is washed with solvents from non	polar to polar and reverse	
49.	•		
	(a) Constriction of pupil	(b) CNS depression	
	(c) Respiratory depression	(d) Diarrhoea	
50.	Which of the following is not recommended in p	patients with renal insufficie	ency or cardiac dysfunction
	(a) Aloe (b) Bisacodyl	(c) Isapghol	(d) Magnesium hydroxide
51.	Higuchi model is applicable to drug that is	In the formulation	
	(a) Dissolved in formulation	(b) Dispersed in form	nulation
	(c) Chemically bound to carrier in formulation	n (d) Osmotically contr	olled in the formulation
52.	Which of the following in correct about parente	eral nutrition	
	(a) Parentral nutrition solutions are hypertoni	c solutionsand IV fluids are	isotonic

- (b) Parentralnutribtionsolutions and IV preparations are isotonic solutions
- (c) Parentrtal nutrition solutions are hypertonic solutions and IV fluids are isotonic



53.	Cyclic AMP (cAMP) is an important second messeng	
	catalyzes the generation/accumulation of cAMP after	
	(a) Protein kinase A	(b) cAMP phosphodiesterase
	(c) Guanylyl cyclase	(d) Adenylate cyclase
54.	Which of the following in not include in immunization	on programme as per WHO recommendations for all
	children	
	(a) BCG (b) Oral polio	(c) Measels (d) Typhoid
55.	0 11 1 0	ed for its treatment
	(1) Pernicious anemia	(P) Erythropetin
	(2) Meagaloblastic anemia	(Q) Oprelvekin
	(3) Anemia associated with chronic renal failure	(R) Ratenteral Vitamin B ₁₂
	(4) Thrombocypeniadue to cancer chemotherapy	(S) Folic acid
	(a) 1-P, 2-Q, 3-R, 4-S (b) 1-R, 2-S, 3-P, 4-Q	(c) 1-R, 2-Q, 3-S, 4-P (d) 1-R, 2-P, 3-S, 4-Q
56.	In mammals, The major fat in adipose tissue is:	
	(a) Triglyceri <i>d</i> e	(b) Cholesterol
	(c) Sphingophospholipids	(d) Phospholipids
57.	Plarographic method of analysis to obtain individual a	amounts of Cu ²⁺ and Cd ²⁺ in a given mixture of the two
	ions (Cu^{2+} and Cd^{2+}) is achieved by measuring their	
	(a) Half-wave potentials	(b) Migration currents
	(c) Decomposition potentials	(d) Diffusion currents
58.	What is the objective of trademark	
	(a) To claim exclusive properties of products or ser	vices
	(b) To claim innovation of products or services	
	(c) To deal with market place of expressive ideas	
	(d) To protect consumers from being misled	
59.	Turbulent flow is exhibited by fluids whose	
	(a) Re<40' (b) Re>40'	(c) Re=40 (d) All of the above
60.	Characteristics of drug-protein binding	
	(P) Often parallels drug lipid solubility	
	(Q) Drug-plasma albumin binding tends to be relative	vely nonselective
	(R) Acidic drugs bind to albumin while basic drug b	ind to glycoproteins
	(S) In rheumatoid arthritis patients, increased alph	na1- acidic glycoprotein tends to promote increased
	lidocaine protein binding	
	(a) P and Q (b) P, Q and R	(c) P, Q, R and S (d) P and R
61.	C=O stretchings are very strong and easily observable	bands in IR spectroscopy. However in the IR spectrum
	of glucose C=O absorption band is not seen. Why	
	(a) In glucose, C=O group is not terminal	(b) In glucose C=O group is absent
	(c) In glucose, hemiacetal group is present	(d) In glucose, hemiketal group is present



62.	What is/are use/s of	of phenol coefficient			
	(a) Tocompare a di	sinfectant's killing efficacy	to that of	phenol	
	(b) To determine the	e dilution at which the disi	nfectant is	to be used	
	(c) To determine the	ne purity of disinfectant			
	(d) All of the above	5			
63.	Arrange the followi	ng esters as per decreasing	order of 1	ate of saponificat	ion
	(I) Ethyl benzoate		(II)	Ethyl p- methoxy	benzoate
	(III) Ethyl p- chlorol	benzoate	(IV)	Ethyl p-nitrobenz	zoate
	(a) I>II>III>IV	(b) IV>III>II>I	(c)	IV>III>I>II	(d) II>IV>I>III
64.	Which of the follow	ing statements about bento	nite are C	ORRECT	
	(P) Gycerin is used	to pre-wet the bentonite p	rior to mi	xing with water to	form its gel
	(Q) Aqueous bento	nite suspensions retain thei	ir viscosit	y above pH 6 but a	are precipitated by acids
	(R) MgO increase g	el formation while alcohol in	n significa	nt amounts can pr	ecipitate bentonite gel
	(S) Betonite exhibi	ts rheopexy			
	(a) P and Q	(b) Q and R	(c)	P,Q and R	(d) P, Q, R and S
65.	Acid insoluble ash o	fa leafis called as			
	(a) Earthy matter &	& silica	(b)	Inorganic conten	t
	(c) Organic Conten	ıt	(d)	All of the above	
66.	Grape fruit juice is	P- glycoprotein and CYP40) enzyme	inhibitor . if drug	g X is degraded by proteolytic
	enzymes, administr	ation of grapefruit juice wit	h X		
	(a) Increase bioava	ailability of X	(b)	Decrease Bioavai	lability of X
	(c) Does not affect	bioavailability of X	(d)	Cause unexpecte	d action of X
67.	Tannins give positiv	ve test for all of the followin	g EXCEPT		
	(P) Goldebeater ski	n test	(Q)	Phenazone	
	(R) Biuret test		(S)	FeCl ₃	
	(a) P and Q	(b) Q and R		P, Q and R	(d) P,Q and S
68.	Vigabatrin is a GAB	A analogue that potentiates	action of	GABA in the brain	because it
		receptor and acts as agonis	t		
	(b) Inhibits GABA t	ransaminase			
	(c) Blocks NMDA r	eceptor via the glycine bind	ling site		
		al reuptake of GABA from s	• •		
69.	_	systolic B.P. but reduces dia			
	(a) Isoproterenol	(b) Epinephrine	(c)	Nor Epinephrine	(d) Propranol



70.	0	re characteristics for collo			
		orces, the mill undergoes p		-	ment
		in 1 μm can be obtained wi			
	• • • • • • • • • • • • • • • • • • • •	olloid mills are hammer , tu			
		ir operation is based on th		-	
	(a) Only, P, Q and R are			Only P and R are c	
	(c) Only Q and S are co			P, Q, R and S are co	orrect
71.		e due to hyaluronidase is c			
	(a) Tendinitis			Bursitis	5. I (015)
	(c) Cellulitics		(d)	Cumulative Injury	Disorder (CID)
72.	The hydroxyl derivative	of cymene is called as what	at		
	(P) Thymol	(Q) Carvacrol	(R)	Menthol	(S) Cumene
	(a) P, Q, R and S	(b) P, Q , and R	(c)	P and Q	(d) Only P
73.	Which of the following	are the correct properties	of ferr	oin? Ferroin is	
	(P) 1, 10-phnathroline		(Q)	A bidentate ligand	complex
	(R) Red in reduced for	m	(S)	Blue in oxidized for	orm
	(a) P and Q	(b) R and S	(c)	P, R and S	(d) P, Q, R and S
74.	Each of the following is	a glycosaminoglycan deng	ue feve	er is	
	(a) Chondroitin and de	rmatan	(b)	Heparan and hepa	arin
	(c) Hyaluronic acid and	d keratin	(d)	Keratin and chitin	
75.	If X is an equivalent of s	ilver deposited is silver cou	ulomete	er and Y is an equip	oment of copper deposited in
	copper coulometer wh	en constant current is pass	sed thr	ough the electroche	emical cell for the same time
	which of the following i	s correct			
	(a) X =Y	(b) $X = 2Y$		X = Y/2	(d) 2X =Y
76.	_		nost coi	mmon initial treatm	ent of men with symptomatic
	benign prostatic hypert				
	(a) Alpha-1 agonist	(b) Alpha-1 blocker		Beta-1 agonist	(d) Beta-1 blocker
77.	_	reagents can be used for al			
	(P) Mayer reagent			Kedde reagent	
	(R) Dr4agendoff reagen				of 2, 4 dinitrophenylhydrazine
	(a) Only P and Q are co		~ ^	Only P and R are o	
	(c) Only P and Rare co			Only R and S are c	
78.	0	& Cosmetics Act include Par			U U
70	(a) Schedule A	(b) Schedule V		Schedule U	(d) Schedule W
79.	_	ments about plasmodium f	-		
		nts and gametocytes are no			
	. ,	ecurrent relapses after init			••
		site/multiple infection can	De see	n within single KBC	٠
	(d) Causes more severe	e disease in pregnancy			



80.	. The chairman of the investigational new Drug (IND) committee in India is							
	(a) Drugs controller General of India, Government of	of In	dia					
	(b) Secetary, Department of Health Reasearch, Government of India							
	(c) Directorate General of Health Sciences, Governme	nent	of India					
	(d) Secretary, Department of Biotechnology, Govern	men	t of India					
81.	In the filling of container what is the meaning of "ov	erfill	container"					
	(a) Container filled to its minimum capacity	(b)	Container filled to its maximum capacity					
	(c) Empty container	(d)	Cleaned container					
82.	What is the name of floor on which production work	k is d	one rather than administration					
	(a) Administration area	(b)	Production area					
	(c) Quality control area	(d)	Quarentine Area					
83.	Quinoline contains two basic rings. One of the rings	in q	uinolone. It is attached to second ring via o one					
	carbon bridge. Which in the second ring							
	(a) 8-Azabicyclo [3.2.1] octane	(b)	1-Azabicyclo [2.2.2] octane					
	(c) 1, 4-Diazabicyclo [2.2.2] octane	(d)	Rubane					
84.	Which of the first drugs are potentiated by the second	nd						
	(a) Phenytoin – Ethinyloestradiol							
	(b) Warfarin – Phenobarbitone							
	(c) Lithium- Thaazide diuretics Potentiated due to r	educ	ed Lithium clearance					
	(d) Bromorcriptine- Metpoclopramide							
85.	Which of the following is a long acting $\beta 2$ agonist τ	that	can be given by nebulization and as well a dry					
	powder inhaler for the treatment of COPD							
	(a) Foramterol (b) Albuterol	(c)	Pulmicort (d) Fluticasone					
86.	Which anticholinergic drug mostly used as anti Park	tinso	n drug					
	(a) Procyclidin (b) Methinicol	(c)	Tacrin (d) Atropine					
87.	To create successful new product, a company under	ersta	nds consumers, markets, and competitors and					
	develop a/an							
	(a) Impressive advertising campaign		Strong wed site to push the product					
	(c) Aggressive marketing strategy	` ´	Product that satisties consumers' needs					
88.	Which of the following method is an example of facil							
	(a) Passive diffusion		Endocytosis					
	(c) Carrier mediated diffusion	• •	Active transport					
89.	Which of the following causes arterial and bronchia							
	(a) Prostaglandin E_2		Prostaglanding A ₂					
~ ~	(c) Prostaglandin D_2	(d)	Thromboxane A ₂					
90.	1 · · · · · · · · · · · · · · · · · · ·	45						
	(a) Inhibition of GABA transaminase		Blockade of sodium channel					
	(c) Blockade of glutamate receptor	(d)	Blockade of GABA receptors					



91.	Passive diffusion follows which order of kinetics				
	(a) Non selective and mixed order	(b)	Selective and first or	der	
	(c) Non selective and first order	(d)	Selective and mixed of	order	
92.	Conc v/s time curve drown from single oral dose, w	hich	parameter can be calc	ulate	d
	(a) Elimination constant (b) Rate constant	(c)	Absorption peak	(d)	Plasma conc.
93.	If a basic drug reabsorbed significantly from kidney	whic	ch of the following stat	eme	nt will be correct
	(a) Its renal clearance increases in basic urine	(b)	Its renal clearance de	ecrea	ses in basic urine
	(c) Its renal clearance increases in acidic urine	(d)	Its renal clearance de	ecrea	ses in acidic urine
94.	o, m, p- isomers can be differentiated on the basis o	of:			
	(a) Chemical shift	(b)	Coupling constant		
	(c) Extinction coefficient	(d)	Dipole moment		
95.	Monitoring of plasma drug concentration is required	d wh	ile using:		
	(a) Antihypertensive drugs	(b)	Levodopa		
	(c) Lithium carbonate	(d)	MAO inhibitors		
96.	Bacterial endotoxin are mainly detected by				
	(a) Pyrogen test (b) LAL test	(c)	Thermal test	(d)	Bacterial tes
97.	The shelf life of a medicine is defined as :				
	(a) Time required for 10% degradation of drug				
	(b) Time required for 50% degradation of drug				
	(c) Time required for 90% degradation of drug				
	(d) Time required for 100% degradation of drug				
98.	In which rearrangement reaction, Isocyanate is for	med?	•		
	(a) Curtious (b) Lossen	(c)	Both A & B	(d)	None
99.	Chitin gets converted in to Chitosan upon:				
	(a) Acetylation	(b)	Deacetylation		
	(c) Oxidation	(d)	Reduction		
100	. Efficiency of drug is checked in modest population ir	n			
	(a) Clinical trail-phase1	(b)	Clinical trail-phase2		
	(c) Clinical trail-phase3	(d)	Clinical trail-phase4		
101	. The mixed gland of our body which secrets both ho	rmor	nes and digestive enzy	me, s	so pancreatic enzyme
	digest which substances				
	(a) Lipids, Protein, Carbohydrate but not Nucleic ac				
	(b) Protein, Carbohydrate, Nucleic acid but not Lipi	ds,			
	(c) Carbohydrate, Lipids, nucleic acid but not Prote	in			
102	. In which type of bacteria the cell wall is thicker				
	(a) Gram +ve (b) Gram -ve	(c)	Both	(d)	None
103	. Out of the following anti cancer drug cardio toxicity	is se	en in		
	(a) Mitomycin-C (b) Doxorubicin	(c)	Methotraxate	(d)	Cyclophosphamide
104	. Which of the following free radical is most dangerou	us fr	ee radical		
	(a) O ⁻ (b) H ⁺	(c)	H ₂ O ₂	(d)	Superoxide



105.	The phosphate of a metal	has the formula MHPO4. T	he fo	ormula of its Bromide v	vouk	l be:
	(a) MBr	(b) MBr2	(c)	MBr3	(d)	MBr4
106.	Silicone based adhesive u	sed in TDDS possess follow	ving	properties:		
	(a) Chemical and biologic	cal inertness	(b)	Low toxicity		
	(c) Low sensitization and	d irritation	(d)	All		
107	Schleuniger tester is used	for the tablets to measure:				
	(a) Roughness	(b) Hardness	(c)	Dissolution	(d)	Friability
108	Creatinine clearance is us	ed as a measurement of:				
	(a) Passive renal absorp	tion	(b)	Glomerular filtration i	rate	
	(c) Renal excretion rate		(d)	All		
109.	1-[2-[(2-chloro thienly)m	ethoxy]-2-(2,4-dichlorophe	enyl)	ethyl]-1Iimidazole is:		
	(a) Oxiconazole		(b)	Sukonazole		
	(c) Tioconazole		(d)	Miconazole		
110	The drug of choice in pro	longed febrile convulsions i	is:			
	(a) Carbamazepine	(b) Diazepam	(c)	Phenytoin	(d)	Paracetamol
111	Geometrical isomerism is	possible in case of:				
	(a) 2-Pentene	(b) Pentane	(c)	Propene	(d)	Ethene
112	The loading dose (DL) of a	a drug is usually based on	the:			
	(a) Total body clearance	of the drug				
	(b) Percentage of drug be	ound to plasma proteins				
	(c) Fraction of drug excr	eted unchanged in the uri	ne			
	(d) Apparent volume of a	listribution & desired drug	cond	centration in plasma		
113.	Biologically active arachid	onic acid is http://www.xa	amstu	idy.com		
	(a) All transeicosatetraen	ioic acid	(b)	All cis eicosatetraenoi	ic aci	id
	(c) All transeicosatrienoi	c acid	(d)	All cis eicosatrienoic a	acid	
114	Antidiabetic action of glib	uridestart at molecular leve	l by	which mechanism		
	(a) Phosphorylation of re	eceptor	(b)	Binding to potassium	i ions	S
	(c) Decrease in potassium	m effiux	(d)	Increase in potassium	n effi	ux
115	. Momordica charantia hav	ving blood sugar lowering a	ictivi	ty due to:		
	(a) Momordicin	(b) Charantin	(c)	Momortin	(d)	Charantiamarin
116	. Insulin stimulates glucose	e transport by promoting th	ie tra	anslocation of:		
	(a) GLUT 4		(b)	GLUT 2 & GLUT 4		
	(c) GLUT 1 & GLUT 4		(d)	GLUT 2		
117	Oral rehydration salt cont	ains ionic electrolytes in co	oncer	ntration mmlo/L		
	(a) Na ⁺ 20, K ⁺ 10	(b) Na ⁺ 40, K ⁺ 20	(c)	Na ⁺ 53, K ⁺ 40	(d)	Na ⁺ 60, K ⁺ 20
118	In pinacol – pinacolone re	arrangement, the final pro	duct	is ketone. What is the	starti	ing compound for the
	rearrangement					
	(a) 1, 1-diol	(b) 1, 2-diol	(c)	1, 3-diol	(d)	Geminal diol



119. Which of the following method is useful for measuring the number of viable cells in a culture (a) Plate count technique (b) Dry weight method (c) Petroff-Hauser counter 120. Seeding involves the spread of cancer cells to (a) Blood vessels (c) Fascia surrounding muscles and bones

- 121. Barbiturates are being replaced by hypnotic benzodiazepines because of
 - (a) Low therapeutic index
 - (c) High potential of physical dependence, abuse

122. Adverse drug Event reporting in the responsibility of all of the following EXCEPT

- (a) Pharmacist and physician
- (c) Consumer
- 123. Time dependent dilatant behavior is knows as
 - (a) Thixotrophy (b) Rheopexy

124. Chairman of DTAB is:

- (a) Health minister of India
- (c) Drug controller of India

125. Plasmodesmata is:

- (a) Lignified element
- (c) Very fine protoplasmic thread

- (d) Light scattering in a spectrophotometer
- (b) Serious membranes of body cavities
- (d) Dermis and subcutamneum of the skin
- (b) Suppression in REM sleep
- (d) All of the above
- (b) Manufacturer
 - (d) Regulatory authorities
 - (c) Rheomalaxis (d) Plastic
 - (b) Director general of Health services
 - (d) President of AICTE
 - (b) Vascular element
 - (d) None

End of paper

ANSWER KEY GPAT 2015

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