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GPAT 2019 Question Paper with Answer Key

Graduate Pharmacy Aptitude Test conducted by NBEMS

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GPAT 2019

1.	As per the Medical Termin	nation of Pregnancy A	et and rules, the safe custody of "Forms" is with :				
	(a) Standing committee		(b) Registered Medical Practitioner				
	(c) Owner of the approve	•	(d) Chief Medical Officer				
2.	For protein detection mos	st commonly used prol	be is :				
	(a) Interferon (b)	Antibody	(c) Lectin	(d) Antigen			
3.	Consumer who are loyal t	to two-three brands ar	re considered as :				
	(a) Split loyals (b)	Switcher loyals	(c) Semi-core loyaLs	(d) Shifting loyals			
4.	Choose the CORRECT stat	ement with respect to	"The Pharmacy Act, 1948	:			
	(a) Education regulation 1991 dose not prescribe the minimum qualification for the registration as Pharmacist						
	(b) Section 12 of the act	deals with the approva	al of course of study under	chapter 2 there of.			
	(c) Section 12 of the act of	deals with the approva	l of course of study and exa	mination under chapter			
	2 there of.						
	(d) State Govt is authoris	sed to make any rules	with respect to course of s	tudy.			
5 .	ELISA is based upon						
	(a) Antigen Protein Intera	nction	(b) Antibody - protein Int	eraction			
	(c) Antigen Antibody Inte	raction	(d) Lectin - Antibody Inte	raction			
6. The relation between emissive power of the surface and its absorptivity is given by							
	(a) Stefan - Boltzmann Lav	w	(b) Darcy's Law				
	(c) Fourier's Law		(d) Kirchhoff's Law				
7.	In India the patent office	has its head office at K	Kolkata and branch offices a	at:			
	(a) Dibrugarh, Indore and	l Vapi	(b) Kashmir, Ahmedabad	and Trivandrum			
	(c) Chandigarh, Hyderaba	d and Goa	(d) Mumbai, Chennai and	New Delhi			
8.	Penalty for the cultivation of any cannabis plant to produce, sell purchase transport in contravention						
	of Narcotic Drugs and Psy	chotropic substances	Act and Rules on first conv	riction is			
	(a) Rigorous imprisonment up to 10 years or fine up to Rs. 10 Lakhs						
	(b) Rigorous imprisonme	ent up to 10 years or f	ine up to Rs. 1 Lakh				
	(c) Rigorous imprisonment up to 6 months						
	(d) Fine up to Rs. 10 Lak	h					
9.	In Direct Contact or let c	ondensers harometric	leg serves one of the follo	wing functions :			
	(a) To remove the conde		_	wing functions.			
		sure difference across					
	•	ed to ifs boiling point	, circ and				
	(d) To transfer the feed	• • • • • • • • • • • • • • • • • • • •	chamber				
10	Which of the following is						
10.	(a) Ranitidine	(b) Zantac	(c) Isoniazid	(d) Paracetamol			
11	Hardinge mill is a variant	. ,	(0) 130111112111	(a) I araceminor			
11.	(a) Fluid energy mill	(b) Ball mill	(c) Hammer mill	(d) Rotary cutter mill			
	(a) I faid chergy filliff	(D) Dan min	(e) manimum min	(a) Roun'y cutter milli			

PHARMACEUTICAL CHEMISTY

12.	Retention hyperbilirube	namia is caused due to	0	
	(a) Choleric jaundice		(b) Non clearance of b	ilirubin
	(c) Reflux of bilirubin in	to blood stream	(d) Over production o	f bilirubin
13 .	What will be the Heat of	f vaporisation of 1 mo	le of water, when it has t	he entropy change (ΔS) of
	35.2 cal/mole.deg (at 25	°C) ?		
	(a) 1.408 cal/ mole		(b) 10489 cal/ mole	
	(c) 8465 cal/ mole		(d) 880 cal/mole	
14.	Identify the name of dru	g with the following st	ructure :	
	ONH-CH	Н ₃ Н ₃		
	OH			
	(a) Esmolol	(b) Betaxolol	(c) Metoprolol	(d) Bisaprolol
15 .	The following ACE inhibi	tor used in treating car	diovascular disorder is sy	nthesized from the natural
	amino acids L-alanine an	ıd L-proline :		
	(a) Ramipril	(b) Enalapril	(c) Insmopril	(d) Captopril
16.	The infra-red absorption	n peaks of Nujol is due	to vibrations involving	
	(a) S - hstr and S - hdef		(b) S - hstr and O - hde	ef
	(c) C - hstr and C - hdef		(d) N - hstr and N - hd	ef
17 .	Permitted tolerance limit	t for a 100mL class B v	olumetric flask and 1000	mL class B volumetric flask
	according to BS 1792 sp	ecifications respective	ely are mL	
	(a) 0.15 and 0.80	(b) 0.80 and 0.30	(c) 1.00 and 10.00	(d) 0.15 and 1.5
18.	Predict λ_{max} for π - π^* abs	sorption band in the U	IV spectrum of following	compound :
	Ö			
	(a) 237 nm	(b) 215 nm	(c) 241 nm	(d) 240 nm
19.	One of the following is a	most commonly used	protecting group for am	ines :
	(a) Para Methyl benzyl (I	PMB)	(b) t-Butyloxy carbonyl	(t-BOC)
	(c) Methoxy methylene (!	MOM)	(d) Tetra hydro pyrany	l oxy (THP)
20.	Choose the correct seque	ence of process during	g Atomization in atomic a	absorption spectroscopy
	(a) Desolvation \rightarrow Nebu	lization → Dissociatio	on \rightarrow Volatilization \rightarrow lo	nization
	(b) Nebulization \rightarrow Desc	olvation → Volatilizati	on \rightarrow Dissociation \rightarrow Io	onization
	(c) Desolvation \rightarrow Nebul	lization → Volatilizati	on \rightarrow Dissociation \rightarrow Io	nization
	(d) Nebulization Volatiliz	zation \rightarrow Desolvation	\rightarrow Dissociation \rightarrow Ioniz	zation
21.	Which among the followi	ng carrier gases has t	he highest thermal condu	activity?
	(a) Nitrogen		(b) Oxygen	
	(c) Helium		(d) Compressed Air	
22.	Phase solubility Analysis	curve is not a good to	ol for:	
	(a) Complex formation		(b) Bioavailability deter	mination
	(c) Polymorph detection		(d) Impurity detection	

$$\begin{array}{c|c} & & & & \\ & & & \\ \hline & & & \\ \hline & & & \\ \hline & & \\$$

(a) Curtius Rearrangement

(b) Clemmensen reduction

(c) Wolf-Kishner reduction

- (d) Wolf-Rearrangement
- 24. Which of the following inactive clotting factor is activated by the vitamin-K as a co-enzyme?
 - (a) I, II, III, IV

(b) II, V, IX, X

(c) II, V, VI, VIII

- (d) II, VII, IX, X
- 25. Identify the molecule which will not exhibit Dipole moment?
 - (a) Carbon dioxide
- (b) Carbon monoxide
- (c) Chloroform
- (d) Ammonia
- 26. The following combination of drugs are used in treating severe travelers diarrhoea:
 - (a) Pyrimethamine and sulfadiazine
- (b) Trimethoprim and sulfadiazine
- (c) Pyrimethamine and sulfamethoxazole
- (d) Trimethoprim and sulfamethoxazole
- 27. Reaction of an α-halo ester with an aldehyde or ketone in the presence of a base like NaNH₂ gives
 - α, β-epoxy carboxylic ester. This reaction is referred as: http://www.xamstudy.com
 - (a) Willgerodt rearrangement

(b) Bamford steven reaction

(c) Darzen's glycidic synthesis

- (d) Bayer villiger rearrangement
- 28. Amylopectin, a component of starch gives colour with iodine
 - (a) No colour
- (b) Green
- (c) Blue

(d) Red-purple

- **29.** Anti addition of bromine to trans-2-butene yields:
 - (a) Enantiomer and racemic mixture
- (b) Only racemic mixture

(c) Only enantiomers

- (d) Only meso compounds
- **30.** Conversion of aryldiamnium chloride to arylchloride can be achieved in the presence of :
 - (a) Copper (II) chloride

(b) Copper (I) chloride

(c) Sodium chloride

- (d) Calcium chloride
- 31. Von Gierke's glycogen storage disease is due to defect of which enzyme:
 - (a) Phosphofructokinase

(b) Glucosyl 4 - 6 transferase

(c) Glycogen phosphorylase

- (d) Glucose 6 phosphatase
- 32. The chief product obtained by the reaction of neo-pentyl bromide under E, reaction conditions;
 - (a) neo pentyl alcohol

(b) 2-methyl-2-butene

(c) 2-methyl-1, 3-butadiene

- (d) 2-methyl butene
- 33. RNA molecules having intrinsic catalytic activity are called as
 - (a) mRNAs
- (b) Ribozymes
- (c) sn RNAs
- (d) rRNAs
- 34. This semi synthetic derivative of penicillin is synthesized by acylation of 6-APA with p-hydroxy phenyl glycine:
 - (a) Becampicillin
- (b) Amoxicillin
- (c) Ampicillin
- (d) Carbenicillin

35. Choose the correct product of the following reaction:

$$HNO_3 + 2H_2SO_4 \implies ?$$

(a)
$$H_3O + 2HSO_4 + NO_2$$

(b)
$$H_2O + 2HSO_4 + NO_2$$

36.	Oxazole is prepared by the condensation of α -a (a) Amino acid	mino carbonyl compound with (b) Isocyanide
	(c) Amino acid	(d) Iminoester
37		ability Of the functional groups from those given
37.	below:	ability of the functional groups from those given
	(Strongest first, Weakest last)	
	(a) – NHCOR > – OH > – C_6H_5 > I	(b) - NHCOR > - NH $_2$ > - C $_6$ H $_5$ > I
	(c) - NHCOR > - NR ₂ > - C ₆ H ₅ > I	(d) – NHR > – NHCOR > – C_6H_5 > I
	$(c) = M(c) \times (c) = M(c_2) = C_6 M_5 \times 1$	$(a) = MIK > -MICOK > -C_6 M_5 > 1$
38.	Blockade in β -oxidation results in :	
	(a) Von Gierk's disease	(b) Scurvy
	(c) Sudden infant death syndrome	(d) Taruli' s disease
39.	The basic ring system present in the antihypert	tensive and antiglaucoma drug Timolol" is:
	(a) 1, 3, 5 - Thiadiazole and Morpholine	(b) 1, 3 - Thiazole and Morpholine
	(c) 1, 2, 5 - Thiadiazole and Morpholine	(d) 1, 2, 4 - Thiadiazole and Morpholine
40.	Dehydration of this dicarboxylic acid to obtain	corresponding anhydride is difficult due to stereo
	chemical arrangement:	
	(a) Malic acid (b) Fumaric acid	(c) Glutaric acid (d) Succinic acid
41.	Which of the following pair of drugs is con side	red as selective $\alpha_{_1}$ -Blockers ?
	(a) Timolol and Metoprolol	(b) Prazosin and Terazosin
	(c) Formoterol and Levalbuterol	(d) Yohimbine and Carynanthine
42.	Calculate the accurate osmotic pressure at $00\mathrm{Cof}$	a blood serum sample using Lewis equation having
	freezing point – 053° C	
	(a) 0.636 atm (b) 6.39 atm	(c) 574.28 atm (d) 0.0441 atm
43.	PM indicators are used in:	
	(a) Redox titrations	(b) Non-Aquous titrations
	(c) Acid-base titrations	(d) Complexometric titrations
44.	Kinetically $\frac{x}{a(a-x)}$ kt is the expression for:	
	(a) First order reaction	(b) Second order reaction
	(c) Pseudo first order reaction	(d) Fractional order reaction
45.	Conversion Of a carbonyl functionality directly	to its hydrocarbon in basic media can be achieved
	by	
	(a) Lithium aluminium hydride reduction	
	(c) Sodium borohydride reduction	
46.	-	selective blockers contains 1, 3, 5 - thiadiazole ring
	in its structure ?	
	(a) Sotalol (b) Timolol	(c) Penbutolol (d) Pindolol
47.	-	ntibiotics (Doxorubicin, Daunorubicin, Idarubicin
	and Epirubicin) are	and the state of the Brahama
	(a) Naphthalene nucleus connected with amino	
		ring that is subsequently connected with amino
	sugar via glycosidic linkage (c) Quinoline nucleus connected with amino su	igar via glycosidic linkage
		e ring that is subsequently connected with amino
	sugar Via glycosidic linkage	dame to case-quenty connected trial allino

48 .	When 50 ml of sodium hydroxide (0.1 M) is added	d to 100 mL of 0.1 M acetic a	acid, pH of the resultant
	solution is		
	Ka of acetic acid = 1.82×10^{-5}		
	(a) 8.58 (b) 7.42	(c) 4.74	(d) 7.06
49.	Gabriel ring closure method is employed for the		
	(a) 1 4-oxazine (b) Aziridine	(c) Oxirane	(d) Oxaziridine
	PHARMAC	CEUTICS	
50	"Shake well" label must be placed on the contain	ners of	
50.	(a) Opthalmic suspension	(b) Occuserts	
	(c) Opthalmic solution	(d) Opthalmic gels	
51.	In case of Aerosol testing, valve delivering acce		e of 54 mL or less
	(a) ± 75% (b) ± 5%	(c) ± 10%	(d) ± 15%
52.	Containers may be ren dered free from pyroger	,	
	(a) Autoclaving at 121 °C for 15 minutes	(b) Heating at 210 °C for	•
	(c) Autoclaving at 121 °C for 1 hour	(d) Heating at 100 °C for	3-4 hours
53.	GMP regulation are pertaining to minimum requ	uirements to be met by ind	ustry when :
	(a) Manufacturing, packaging and holding of hu	man drugs and veterinary	drugs
	(b) Manufacture of human drugs and veterinar	y drugs	
	(c) Manufacture and packaging of human drugs	and veterinary drugs	
	(d) Manufacture and holding of human drugs a	nd veterinary drugs	
54.	Which one of the following viscometers can be	used for characterizing no	n-Newtonian system?
	(a) Falling sphere viscometer	(b) Cup and Bob viscome	ter
	(c) Capillary viscometer	(d) Hoeppler viscometer	
55.	For drug substances with highly variable p	harmacokinetic characte	eristics the following
	Bioequivalence study design is used		
	(a) Parallel Design	(b) Non-Replicate Design	
	(c) Non-Parallel Design	(d) Replicate Design	
56.	Roll-tube technique is the modification of :	(b) The street selection	
	(a) Pour plate technique	(b) The streak - plate tech	•
57	(c) Micromanipulator technique Which mechanism of metabolism of drug is not	(d) Spread plate technique	
37.	(a) Conjugative metabolism	(b) Acetylation metabolism	-
	(c) Hydrolytic metabolism	(d) Oxidative metabolism	**
EO		(a) omatoro motionini	
30.	21 CFR part 211 of USFDA describes : (a) Current good clinical practice	(b) Current good packaging	na practica
	(c) Current good manufacturing practice	(d) Current good laborate	• •
59.	In treating immunodeficiency disease the goal is		
37.	(a) 100 mg/dL (b) 400 mg/dL	(c) 200 mg/ dL	(d) 300 mg/ dL
60.	Which one of the following is the property of m		(d) 500 mg/ db
001	(a) They have particle size more than 1 micron	.o.o omabion .	
	(b) They have poor stability		
	(c) They exhibit a viscoelastic gel phase, when in	nternal phase is added in ex	ccess
	(d) They have milky yellow colour	-	

61.	The rheological and funct	ional properties of sy	novial fluid are in	npaired due to :		
	(a) Increase in the conten	nt of mucus	(b) Decrease in	the content of mucus		
	(c) Increase in the conten	t of hyaluronic acid	(d) Decrease in	the content of hyaluronic acid		
62.	Movement of charged part	ick through a liquid ur	nder the influence	of an applied potential difference		
	is known as					
	(a) Sedimentation Potenti	al	(b) Streaming Po	otential		
	(c) Electrophoresis		(d) Electroosmo	sis		
63.	As per US FDA, NDA's for	new chemical entitles	are classified as	ei ther:		
	(a) 'P' for product review	or 'S' for standard re	view			
	(b) "P' for priority review	or 'S' for standard re	view			
	(c) 'P' for product review	or 'S' for safety revie	w			
	(d) 'P' for priority review	or 'S' for safety revie	w			
64.	In preformulation study p	olymorphs can be det	ected by			
	(a) Counter - current chr	omatography	(b) Retractomet	ry		
	(c) High performance liqu	uid chromatography	(d) Differential	scanning		
65.	The following is/are used	to determine the amo	ount of drug boun	d to a protein:		
	(a) Equilibrium dialysis	(b) Solubility	(c) pH titration	(d) Distribution method		
66.	In tablet, hydroxy propyl r	nethyl cellulose is use	d as :			
	(a) Diluent	(b) Film former	(c) Disintegrant	(d) Binder		
67.	Dakin's solution is a syno	nym for :				
	(a) Ammonium Acetate so	olution	(b) Chlorinated	soda solution		
	(c) Chloroxylenlol solution	1	(d) Aluminium A	Acetate solution		
68	MEDLINE, EMBASE, EBM	AND IDIs are :				
	(a) Drug databases		(b) New comper	ndial specification of drugs		
	(c) Chronicles of drug star	ndards	(d) Source for d	rug patents		
69.	Theories of emulsification	ı are characterized by	one of the follow	ing EXCEPT:		
	(a) Film forma lion		(b) Phase inver	sion		
	(c) Monomolecular adsorp	p Lion	(d) Solid particl	e adsorption		
70.	When two brands of a dru	ig product gives same	clinical results, it	is termed as:		
	(a) Therapeutic equivalen	ice	(b) Bio equivale	nce		
	(c) Pharmaceutical equiva	alence	(d) Clinical equi	valence		
71.	Soda ash is also known as	3:				
	(a) Lime stone (b)	Sodium carbonate	(c) Pure silica	(d) Calcium carbonate		
72.	Microcrystalline cellulose	is also called as :				
	(a) Sugar tab (b)	Nutab	(c) Emdex	(d) Avicel		
73.	Which of the following statement is NOT true regarding bulkiness?					
	(a) The reciprocal of bulk	density is bulkiness				
	(b) Bulkiest substance wi	ll require container la	rger than require	d for less bulky substance		
	(c) Smaller particles shift	between larger ones a	nd increases bulk	tiness		
	(d) Bulkiness increases w	•				
74.	Amixture of emulsifier A a	ind emulsifier B with v	alues of 4 and 14	respectively are to be mixed in a		
			. What is the weig	ht of individual emulsifier that is		
	to be taken to have a total	516				
	(a) $A = 5.8$ gm and $B = 1.2$	_	(b) $A = 1.4 \text{ gm a}$			
	(c) $A = 5.6$ gm and $B = 1.4$	l gm	(d) $A = 1.2 \text{ gm a}$	nd B = 5.8 gm		

75.	Which of the following or	xide is not used for ach	nievii	ng Amber color to gla	ass?
	(a) Manganese	(b) Iron	(c)	Cobalt (d	l) Carbon
76.	In case of open model int	ravenous infusion, $C_{ m ss}$	(stea	idy state plasma conc	centration) is equal to :
	(a) [Plasma concentrati Cleara		(b)	[C _{max}] [Infusion ra	te]
	(c) $\frac{[t_{max}] [Infusion rate]}{Clearance}$		(d)	Infusion rate Clearance	
77.	In case of suppositories	base, SFI stands for :			
	(a) Solidified Fatty acid Ir	ndices	(b)	Solid Fluid Indices	
	(c) Solidified Fatty acid In	icline	(d)	Solid Fat Index	
78.	If mean volume — number of particles/gm v	•	dered	d sample is 2.41μm,	density is 3 gm/cm³, the
	(a) 538 x 10 ¹⁰	(b) 3.68 x 10 ¹⁰	(c)	4.55 x 10 ¹⁰	(d) 4.70 x 10 ¹⁰
79.	Which polymorphic form	of a drug candidate ha	as hig	ghest melting point :	
	(a) Unstable	(b) Metastable	(c)	Hydrates	(d) Stable
80.	For bitter drugs in paedia (a) Raspberry syrup	atric formulations, exce		flavouring agent wil Orange syrup	l be.
				Black current syrup	
01	(c) Lemon syrup	amythyamyrain with au			
01.	The co-administration of				
	(a) Increase bioavailabili(b) Increase bioavailabili	•	-		
	(c) Decrease bioavailability	•			
	(d) Decrease bioavailabil	•			
82.	Essentially Hospital Form		•		
02.	(a) Streamline prescription			Improve quality and	hyganicity of food
	(c) Avoid brand and ther		, ,		
83	Volume of blood that flow				
05.	(a) Residence time	is per unit time per un		Elimination rate	•
	(c) Gastric emptying rate			Perfusion rate	
84	Leaching by immersion (Of crude material in a s	. ,		
04.	(a) Maceration	(b) Precipitation		Evaporation	(d) Crystallization
85	The protein toxins that ha			•	. , ,
00.	immunogenicity are know		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- are toxicity without	organicancy area mg are
	(a) Sera	(b) Antisera	(c)	Toxoids	(d) Vaccines
86.	Which of the following is				
501	(a) Osmosis	(b) Floating		Mucoadhesion	(d) Swelling
87.	The phase contrast micro				
٥,,	(a) Stained	ocepy to retauble in su		Unstained	-1
	(c) Treated with fluoresc	ent dve	. ,	Treated with fluores	scent antihody
	(c) Iteated with hubiest	ciic aye	(u)	ricated with hubbes	ocite antibody

PHARMACOGNOSY

88.	The size Of Lycopodium	sp ores is:		
	(a) 45 μm	(b) 15 μm	(c) 35 μm	(d) 25 μm
89.	Regholarrhenines A-F ha	ive been isolated from	1:	
	(a) Veratrums	(b) Areca	(c) Aconite	(d) Kurchi
90.	Pungency of Zingiber of	ficinal e rhizome is du	e to the presence of :	
	(a) Citral	(b) Gingerol	(c) Commiphoric acid	(d) Gingeral
91.	The principal cultivation	areas of pyrethrum f	lowers are in -	
	(a) Sri Lanka	(b) Malaysia	(c) India	(d) Kenya
92	In Cassia angustifolia sl	ort-term drought		
74.	(a) Increases the conce	_	Δ + R	
	(b) Decreases the conce			
	(c) Causes loss of leaf by		3 A + D	
	(d) Causes death of the			
93	The Glycoside Scillirosic	•		
70.	(a) Insecticide	(b) Rodenticide	(c) Acaricide	(d) Molluscide
94		. ,		rusts the bodies of a scale
74.	insect:	absunce privated fre	m a secretion that the	rusts the boures of a sear
	(a) Viverra civet		(b) Karria lacca	
	(c) Acipenser huso		(d) Alverites moschi	ferus
95.	All members of this orde	r are trees or shrubs; m	ostly evergreen with nee	dle - like leaves ; monoecious
	or dioecious - sporophy	lls usually in cones. Re	esin ducts occur in all pa	rts :
	(a) Cycadales	(b) Ginkgoales	(c) Taxales	(d) Coniferae
96.	In Gambir - fluorescin to	est the petroleum spir	it layer shows a stron g :	
	(a) Green fluorescence		(b) Blue fluorescence	2
	(c) Yellow fluorescence		(d) Red fluorescence	
97.	Antiviral action of Neen	n in due to :		
	(a) Kaemferol	(b) Nelanin	(c) Nimbin	(d) Azadirachitin
		PHARMA	ACOLOGY	
98.	Characteristic micrncap		n Alzheimer's disease is	
	(a) Epidural haemoregi	-		
	(b) Depigmentation of s	_		
	(c) Demyelination of ne(d) Presence of neutriti	-	h amulaid	
		c plaques containing A	ib-amylolu	
99.	Cardiac output is:			
	(a) Volume of blood eje	•		
	(b) Volume of the blood	,	•	
	(c) Volume of the blood	•	•	
400	(d) Volume of blood eje	cted by the auricles pe	er peat	
100	. What are sutures?			

(b) Non fibrous joints

(d) Fibrous joints of the skull

(a) Cartilaginous joints

(c) Synovial joints

101.	Following are the facts re	garding clinical applica	ations of muscarinic rec	eptor blocking drugs.				
	Identify the false statemen							
	(a) Used in the treatmen single agent is fully ef		e is often an excercise i	n polypharmacy, since no				
	(b) Marked reflex vagal discharge may stimulate sinoatrial oratrioventricular node to improve cardiac output.							
	(c) Mydriasis produced		-	ation of the retina and				
		active error in uncoop	•					
102	(d) Scopolamine is one a			ess				
102.	Which of the following ce (a) Neutrophils (b)	Natural killer cells	(c) Marcrophages	(d) Mast cells				
103.	Which is NOT true about	calcitriol?	(c) Marcrophages	(u) Mast cells				
	(a) It is active form of Vit	4*	aanhata fuam hana					
	(b) It enhances reabsorps	•	•					
	(c) It prevents tubular rea(d) Enhances absorption							
104	Production of an abnorma			rac:				
104	(a) Multinodular goitre	ai igo illillittilogiolitilli	(b) Hypothyroidism	1003				
	(c) Thyrotoxicosis		(d) Rheumatoid arthrit	is				
105.	Metabolic acidosis does N	OT occur during:	(4) 111141111111111111111111111111111111					
	(a) Starvation		(b) Chronic renal failu	re ·				
	(c) Wound healing		(d) Uncontrolled diabet					
106	Glucocorticoids have follo	wing effects - EXCEPT:						
	(a) Stimulation of immune	e responses	(b) Resistance to stress	3				
	(c) Lipolysis		(d) Protein breakdown	and glucose formation				
107	Which one of the following	ng is NOT' the role of N	itric oxide?					
	(a) Reliving vascular smoo							
	(b) Mediating microbicida		ges					
	(c) Serving as neurotrans							
400	(d) Inducing platelet aggre	-						
108.	Identify the drug which is			d) Ci				
100	(a) Pyrazinamide	(b) Gentamicin	(c) Streptomycin (d) Ciprofloxacin				
109	What is anaplasia? (a) Morphological and fur	actional alterations (ch	anges that are different	from normal calls				
	(b) Morphological and fur	•	•	t from normal celb				
	(c) Increase in size of cell		o normar cerb					
	(d) Lack of growth of cell							
110	Match the following liver		requences:					
110.	(a) Steatosis	(M) Raised hiliruhin l	•					
	(b) Cholestasis	(N) Slight rise in seru						
	(c) Hepatitis		at droplets within liver c	والم				
	(d) Fibrosis	7 7	•	CID				
	(a) (a) - (N), (b) - (P), (c)-			(c)- (P) (d)- (N)				
	(c) (a) - (N), (b) - (O), (c)-							
111	Numerous isomers of hum							
	is responsible for the met			•				
	19 responsible for the med	appliant of over 22% 0	n are prescription arags	meadonzed by livel.				
	(a) CVP3AA	(b) CVPIA2	(c) CVP1 A 1 1	(d) CVP2R6				
112	(a) CYP3A4 Which of the following dia	(b) CYPIA2	(c) CYP1A11	(d) CYP2B6				
112.	(a) CYP3A4 Which of the following dir (a) Dabigatran	. ,	. ,	(d) CYP2B6 (d) Rivaroxahan				

	•		itatory glutamatergic synapse
and facilitation of (GABA mediated Cl channe	el opening action?	
(a) Valproate	(b) Ethosuximide	(c) Topiramate	(d) Phenytoin
114. Which of the follow	wing is NOT a cardioselect	tive β blocker?	
(a) Bisoprolol	(b) Nebivolol	(c) Acebutolol	(d) Pindolol
115. The term 'aneurys	m' refers to:		
(a) Permanent blo	ckage of blood vessels		
(b) Permanent abr	normal dilatation of blood	vessel	
(c) Abnormal conn	nections in blood vessels		
(d) Abnormal grov	wth of neurones near bloo	od vessels	
116. The antiemetic act	ivity of glycopyrronium is	s related to potent inhib	oition ofreceptor both
peripherally and c	entrally.		
(a) 5HT ₃	(b) D ₂	(c) M ₁	(d) H ₁
117. Identify the false st	atement about benzodiaz	epines from the followi	ng:
(a) Benzodiazepin	es cause reduction of anx	iety	
(b) Benzodiazepin	es cause convulsions		
(c) Benzodiazepine	es produce muscle relaxat	ion and loss of motor c	o-ordination
(d) Benzodiazepin	es are useful in insomnia		
118. Which of the follow	ving is 5-alpha reductase	inhibitor?	
(a) Gliclazide	(b) Sildenafil	(c) Finasteride	(d) Polvthiazide
119. Several different o	chemicals released by mid	crobes and inflamed tis	ssues attract phagocytes, this
 119. Several different chemicals released by microbes and inflamed tissues attract phagocytes, this phenomenon is called as			
(a) Phagocytosis	(b) Integrins	(c) Chemotaxis	(d) Emigration
120. Hematocrit 65% to	70% indicates:		
(a) Hemophilia	(b) Połycythemia	(c) Hypoxia	(d) Anaemia
			by inhalation or nebulisation in
•	f asthma does not include		
(a) Peripheral vaso	dilation	(b) Hypertension	
(c) Tachvcardia	to ative during from the fall	(d) Fine tremor	
(a) Oxyphenonium	tective drug from the folk (b) Metronidazole		(d) Sucralfate
	. ,	. ,	ative deficiency of leading
			his contributes for emotional
disturbances and d	•		
(a) Enzyme decarb	•	(c) Pyridoxine pho	sphate (d) Co-factor A
* *	ls by OECD guideline No. 4	, , ,	
(a) Ate oral toxicity	by acute toxic class meth	nod	
(b) Acute oral toxic	city by up and Down proc	cedure	
(c) Repeated dose	28-day toxicity study in ro	odents	
(d) Acute oral toxic	city by fixed dose procedu	ıre	
125. Which of the follow	44		
Excessive use of di		43.11	,
(a) Hypervolemic s		(b) Neurogenic sho	
(c) Hypovolemic sh	OCK	(d) Cardiogenic sh	оск

ANSWER KEY GPAT 2019

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