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GPAT 2019 Question Paper with Answer Key

Graduate Pharmacy Aptitude Test conducted by NBEMS

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1.	As per the Medical Termi	nation of Pregnancy A	ct and rules, the safe custody of "Forms" is with :				
	(a) Standing committee		(b) Registered Medical Practitioner				
	(c) Owner of the approve	d place	(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	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 v	with respect to course of s	tudy.			
5.	ELISA is based upon						
	(a) Antigen Protein Intera	oction	(b) Antibody - protein Int	eraction			
	(c) Antigen Antibody Inte	raction	(d) Lectin - Antibody Inte	raction			
6.	The relation between emi	ssive power of the sur	face and its absorptlvity 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	Colkata 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.		, i	o produce, sell purchase tra	•			
			Act and Rules on first conv	iction is			
	(a) Rigorous imprisonme	ent up to 10 years or f	ìne up to Rs. 10 Lakhs				
	(b) Rigorous imprisonme	ent up to 10 years or f	ìne up to Rs. 1 Lakh				
	(c) Rigorous imprisonme	-					
	(d) Fine up to Rs. 10 Lak	h					
9.	In Direct, Contact or let c	ondensers, barometric	leg serves one of the follo	wing functions :			
	(a) To remove the conde		0				
	(b) To measure the pres	, ,					
		ed to ifs boiling point					
	(d) To transfer the feed :	• •	chamber				
10.	Which of the following is						
	(a) Ranitidine	(b) Zantac	(c) Isoniazid	(d) Paracetamol			
11.	Hardinge mill is a variant		()	(·) · · · · · · · · · · · · · · · · · ·			
	(a) Fluid energy mill	(b) Ball mill	(c) Hammer mill	(d) Rotary cutter mill			
	() ()	()	()	()			

PHARMACEUTICAL CHEMISTY

12.	Retention hyperbiliruber	namia is caused due to		
	(a) Choleric jaundice		(b) Non clearance of bilir	ubin
	(c) Reflux of bilirubin int	o blood stream	(d) Over production of bi	
13.			of water, when it has the	
	35.2 cal/mole.deg (at 25	•		
	(a) 1.408 cal/ mole	-).	(b) 10489 cal/ mole	
	(c) 8465 cal/ mole		(d) 880 cal/mole	
14.	Identify the name of drug	with the following str	.,	
	OH NH-CH	I ₃ I ₃		
	(a) Esmolol	(b) Betaxolol	(c) Metoprolol	(d) Bisaprolol
15.		.,	iovascular disorder is synth	., .
	amino acids L-alanine and	Ũ	<u>,</u>	
	(a) Ramipril	(b) Enalapril	(c) Insmopril	(d) Captopril
16.	The infra-red absorption			
	(a) S - hstr and S - hdef	. ,	(b) S - hstr and O - hdef	
	(c) C - hstr and C - hdef		(d) N - hstr and N - hdef	
17.	Permitted tolerance limit	for a 100mL class B vol	lumetric flask and 1000 mL	class B volumetric flask
	according to BS 1792 spe	ecifications respectively	y 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 $\pi - \pi^*$ absorption	orption band in the UV	/ spectrum of following cor	npound :
	(a) 237 nm	(b) 215 nm	(c) 241 nm	(d) 240 nm
19.	•		rotecting group for amine	
	(a) Para Methyl benzyl (P	•	(b) t-Butyloxy carbonyl (t-	•
	(c) Methoxy methylene (M	•	(d) Tetra hydro pyranyl o	,
20.		•	Atomization in atomic abs	
	.,		\rightarrow Volatilization \rightarrow loniz	
			$n \rightarrow Dissociation \rightarrow Ioniz$	
			$n \rightarrow Dissociation \rightarrow Ioniz$	
~ ~			\rightarrow Dissociation \rightarrow Ionizati	
21.	-	ig carrier gases has the	e highest thermal conducti	vity ?
	(a) Nitrogen		(b) Oxygen	
	(c) Helium		(d) Compressed Air	
22.	Phase solubility Analysis	curve is not a good too		
	(a) Complex formation		(b) Bioavailability determine	nation
	(c) Polymorph detection		(d) Impurity detection	



	O N ^{NH} 2		
	NH2-NH2	KON	\sim
	-H ₂ 0		
	Identify the named reaction;	···2 •	
	(a) Curtius Rearrangement	(b) Clemmensen reduction	1
	(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 Dipo	le moment?	
	(a) Carbon dioxide (b) Carbon monoxide	(c) Chloroform	(d) Ammonia
26 . 1	The following combination of drugs are used in t	reating severe travelers dia	arrhoea :
	(a) Pyrimethamine and sulfadiazine	(b) Trimethoprim and sul	adiazine
	(c) Pyrimethamine and sulfamethoxazole	(d) Trimethoprim and sul	famethoxazole
27.	Reaction of an α -halo ester with an aldehyde or	ketone in the presence of a	a base like NaNH gives
	α , β -epoxy carboxylic ester. This reaction is ref		-
	(a) Willgerodt rearrangement	(b) Bamford steven react	
	(c) Darzen's glycidic synthesis	(d) Bayer villiger rearrar	
28.			
	(a) No colour (b) Green	(c) Blue	(d) Red-purple
29.	Anti addition of bromine to trans-2-butene yiek		
	(a) Enantiomer and racemic mixture	(b) Only racemic mixture	
	(c) Only enantiomers	(d) Only meso compound	ls
30.	Conversion of aryldiamnium chloride to arylchk		
	(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 transfe	rase
	(c) Glycogen phosphorylase	(d) Glucose - 6 - phospha	tase
32.	The chief product obtained by the reaction of n	eo-pentyl bromi de under E	1 reaction conditions ;
	(a) neo pentyl alcohol	(b) 2-methyl-2-butene	
	(c) 2-methyl-l , 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 s	ynthesized by acylation of	6-APA with p-hydroxy
	phenyl glycine :		
	phenyi giyeme .		
	(a) Becampicillin (b) Amoxicillin	(c) Ampicillin	(d) Carbenicillin
35.	(a) Becampicillin (b) Amoxicillin Choose the correct product of the following rea	••••	(d) Carbenicillin
35.	(a) Becampicillin (b) Amoxicillin Choose the correct product of the following reating $HNO_3 + 2H_2SO_4 \implies ?$	action :	(d) Carbenicillin
35.	(a) Becampicillin (b) Amoxicillin Choose the correct product of the following rea	••••	(d) Carbenicillin



36.	Oxazole is prepared by the condensation of α -at	
	(a) Amino acid	(b) Isocyanide (d) Iminocetan
27	(c) Aminoether	(d) Iminoester ability Of the functional groups from those given
37.	below : (Strongest first, Weakest last)	ability of the functional groups from those given
	$(a) - NHCOR > - OH > - C_6H_5 > I$	(b) – NHCOR > – NH_2 > – C_6H_5 > I
	$(c) - NHCOR > - NR_2 > - C_6H_5 > I$	$(d) - NHR > - NHCOR > - C_6H_5 > I$
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	ensive 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 o chemical arrangement :	corresponding anhydride is difficult due to stereo
	(a) Malic acid (b) Fumaric acid	(c) Glutaric acid (d) Succinic acid
41	Which of the following pair of drugs is con sider	
	(a) Timolol and Metoprolol	(b) Prazosin and Terazosin
	(c) Formoterol and Levalbuterol	(d) Yohimbine and Carynanthine
42		a blood serum sample using Lewis equation having
42.	freezing point – 053° C	a blobu set um sample using Lewis equation naving
	(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 t	o its hydrocarbon in basic media can be achieved
	(a) Lithium aluminium hydride reduction	(b) Clemmensen reduc lion
	(c) Sodium borohydride reduction	(d) Wolf Kishner reduction
46.	Which of the following second generation β_1 - s	elective blockers contains 1, 3, 5 - thiadiazole ring
	in its structure ?	
	(a) Sotalol (b) Timolol	(c) Penbutolol (d) Pindolol
47.	The structural features present in anti-cancer an	ntibiotics (Doxorubicin, Daunorubicin, Idarubicin
	and Epirubicin) are	
	(a) Naphthalene nucleus connected with amino	sugar via glycosidic linkage
	(b) Anthracene nuclues fused to cyclohexane	ring that is subsequently connected with amino
	sugar via glycosidic linkage	
	(c) Quinoline nucleus connected with amino su	
	(d) Phenanthrene nucleus fused to cyclohexane	e ring that is subsequently connected with amino

sugar Via glycosidic linkage

48 .	When 50 ml of sodium solution is	hydroxide (0.1 M) is a	dded to 100 mL of 0.1 M	acetic acid, pH of the resultant		
	Ka of acetic acid = 1.82	×10 ⁻⁵				
	(a) 8.58	(b) 7.42	(c) 4.74	(d) 7.06		
49.	Gabriel ring closure me	thod is employed for	the synthesis of :			
	(a) 1 4-oxazine	(b) Aziridine	(c) Oxirane	(d) Oxaziridine		
		PHARM	ACEUTICS			
50.	"Shake well" label must	be placed on the cor	ntainers of :			
	(a) Opthalmic suspensi	on	(b) Occuserts			
	(c) Opthalmic solution		(d) Opthalmic gels			
51.		ng. valve delivering a	cceptance criteria for a	volume of 54 mL or less		
	(a) ± 75%	(b) ± 5%	(c) ± 10%	(d) ± 15%		
52.	Containers may be ren	dered free from pyro	ogens by adequate clean	ing and by:		
	÷		(b) Heating at 210	· ·		
	(c) Autoclaving at 121		(d) Heating at 100			
53.	.,	_	., .			
	GMP regulation are pertaining to minimum requirements to be met by industry when : (a) Manufacturing, packaging and holding of human drugs and veterinary drugs					
	(b) Manufacture of human drugs and veterinary drugs					
	(c) Manufacture and packaging of human drugs and veterinary drugs					
			s and veterinary drugs	0		
54.				zing non-Newtonian system ?		
	(a) Falling sphere visco	0	(b) Cup and Bob v	с ·		
	(c) Capillary viscometer		(d) Hoeppler visco			
55.	For drug substances	with highly variabl		naracteristics the following		
	Bioequivalence study de	÷ •		0		
	(a) Parallel Design	0	(b) Non-Replicate	Design		
	(c) Non-Parallel Design		(d) Replicate Desig	•		
56.	Roll-tube technique is t			,		
	(a) Pour plate techniqu		(b) The streak - pla	ite technique		
	(c) Micromanipulator t		(d) Spread plate te	•		
57.	Which mechanism of m	•	.,	•		
	(a) Conjugative metabo	_	(b) Acetylation met			
	(c) Hydrolytic metaboli		(d) Oxidative metal			
58.	21 CFR part 211 of USF	DA describes :				
	(a) Current good clinica	al practice	(b) Current good p	ackaging practice		
	(c) Current good manu	facturing practice	(d) Current good k	aboratory practice		
59.	In treating immunodefie	ciency disease the go	al is to maintain lgG leve	ls at about :		
	(a) 100 mg/ dL	(b) 400 mg/ dL	(c) 200 mg/ dL	(d) 300 mg/ dL		
60.	Which one of the follow	ving is the property o	f micro-emulsion ?			
	(a) They have particle s	ize more than 1 micr	ron			
	(b) They have poor stat	oility				
	(c) They exhibit a visco	elastic gel phase, whe	en internal phase is adde	ed in excess		

(d) They have milky yellow colour



			•	
61.	The rheological and fu	inctional properties of sy	novial fluid are in	paired due to :
	(a) Increase in the co	ntent of mucus	(b) Decrease in	the content of mucus
	(c) Increase in the con	ntent of hyaluronic acid	(d) Decrease in	the content of hyaluronic acid
62.	Movement of charged	particle through a liquid u	nder the influence o	of an applied potential difference
	is known as			
	(a) Sedimentation Pot	ential	(b) Streaming Po	otential
	(c) Electrophoresis		(d) Electroosmo	sis
63 .	As per US FDA, NDA's	for new chemical entitles	s are c <mark>lassified as e</mark>	either :
	(a) 'P' for product rev	iew or 'S' for standard re	eview	
	(b) "P' for priority rev	view or 'S' for standard re	eview	
	(c) 'P' for product rev	iew or 'S' for safety revie	w	
	(d) 'P' for priority rev	iew or 'S' for safety revie	w	
64 .	In preformulation stud	ly polymorphs can be det	tected by	
	(a) Counter - current	chromatography	(b) Retractomet	гу
	(c) High performance	liquid chromatography	(d) Differential s	scanning
65.		sed to determine the am	_	d to a protein:
	(a) Equilibrium dialys		(c) pH titration	(d) Distribution method
66.		oyl methyl cellulose is use		
	(a) Diluent	(b) Film former	(c) Disintegrant	(d) Binder
67.				
	(a) Ammonium Acetat		(b) Chlorinated	
	(c) Chloroxylenlol solu		(d) Aluminium A	acetate solution
68.	MEDLINE, EMBASE, E	BM AND IDIs are :	a	
	(a) Drug databases			ndial specification of drugs
	(c) Chronicles of drug	standards	(d) Source for d	rug patents
69 .	Theories of emulsifica	tion are characterized by	one of the follow	ing EXCEPT:
	(a) Film forma lion		(b) Phase invers	sion
	(c) Monomolecular ad	sorp Lion	(d) Solid partick	e adsorption
70.	When two brands of a	drug product gives same	clinical results, it	is termed as :
	(a) Therapeutic equiv	alence	(b) Bio equivale	nce
	(c) Pharmaceutical ec		(d) Clinical equi	valence
71.	Soda ash is also know			
	(a) Lime stone	(b) Sodium carbonate	(c) Pure silica	(d) Calcium carbonate
72.				
-	(a) Sugar tab	(b) Nutab	(c) Emdex	(d) Avicel
73.		g statement is NOT true r	egarding bulkines	S ?
		oulk density is bulkiness		I fee have had been as had a second
		-	-	d for less bulky substance
	•	hift between larger ones a		aness
74		es with decrease in partic		reportively are to be mined in a
74.				respectively are to be mixed in a
		-	s, what is the weig	ht of <mark>individual emulsifier that is</mark>
	to be taken to have a	iotal weight of 7 gm ?		

(a) A = 5.8 gm and B = 1.2 gm	(b) A = 1.4 gm and B = 5.6 gm
(c) A = 5.6 gm and B = 1.4 gm	(d) A = 1.2 gm and B = 5.8 gm



75 .	Which of the following ox		nievir	ng Amber color to glas	s ?
	(a) Manganese	(b) Iron	. ,		Carbon
76.	In case of open model int	ravenous infusion, C _{ss}	(stea	dy state plasma conce	ntration) is equal to :
	(a) [Plasma concentration] Clearant		(b)	[C _{max}] [Infusion rate Clearance]
	(c) $\frac{[t_{max}] [Infusion rate]}{Clearance}$		(d)	Infusion rate Clearance	
77.	In case of suppositories b	base, SFI stands for :			
	(a) Solidified Fatty acid In	dices	(b)	Solid Fluid Indices	
	(c) Solidified Fatty acid In	cline	(d)	Solid Fat Index	
78.	If mean volume — numb	er diameter of a powe	dered	l sample is 2.41μm, de	ensity is 3 gm/cm ³ , the
	number of particles/gm v	vill be .			
	(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	shest melting point :	
	(a) Unstable	(b) Metastable	(c)	Hydrates	(d) Stable
80.	For bitter drugs in paedia	atric formulations, exce	ellent	flavouring agent will	be.
	(a) Raspberry syrup		(b)	Orange syrup	
	(c) Lemon syrup		(d)	Black current syrup	
81.	The co-administration of	erythromycin with cyc	closp	orine :	
	(a) Increase bioavailabilit	y, due to inhibition of l	hepa	tic metabolism	
	(b) Increase bioavailabilit	ty, due to inhibition of	micr	oflora in intestine	
	(c) Decrease bioavailabili	ty due to complex forn	natio	n	
	(d) Decrease bioavailabili	ity, due to induction of	hepa	tic metabolism	
82.	Essentially Hospital Form	iulary system provide r	nech	anism to :	
	(a) Streamline prescription	on writing	(b)	Improve quality and	hygenicity of food
	(c) Avoid brand and thera	apeutic duplication	(d)	Improve surgical pro	cedures
83.	Volume of blood that flow	vs per unit time per un	it vo	lume of the tissue is :	
	(a) Residence time		(b)	Elimination rate	
	(c) Gastric emptying rate		(d)	Perfusion rate	
84.	Leaching by immersion C)f crude material in a s	olver	nt is also known as :	
	(a) Maceration	(b) Precipitation	(c)	Evaporation	(d) Crystallization
85.	The protein toxins that ha	ave been modified to re	educe	the toxicity without s	ignificantly altering the
	immunogenicity are know	vn as :			
	(a) Sera	(b) Antisera	(c)	Toxoids	(d) Vaccines
86.	Which of the following is	NOT a mechanism for	achi	eving gastroretention	?
	(a) Osmosis	(b) Floating	(c)	Mucoadhesion	(d) Swelling
87.	The phase contrast micro	scopy is valuable in st	udyin	ng living cells which ar	e :
	(a) Stained		(b)	Unstained	
	(c) Treated with fluoresco	ent dye	(d)	Treated with fluoresc	ent antibody

PHARMACOGNOSY



88.	The size Of Lycopodium s	sp ores is :		
	(a) 45 μm	(b) 15 μm	(c) 35 μm	(d) 25 μm
<mark>89</mark> .	Regholarrhenines A-F hav	e been isolated from :		
	(a) Veratrums	(b) Areca	(c) Aconite	(d) Kurchi
90 .	Pungency of Zingiber offi	cinal e rhizome is due	to the presence of :	
	(a) Citral	(b) Gingerol	(c) Commiphoric acid	(d) Gingeral
91.	The principal cultivation a	areas of pyrethrum flo	wers are in -	
	(a) Sri Lanka	(b) Malaysia	(c) India	(d) Kenya
92.	In Cassia angustifolia sho	_	_	
	(a) Increases the concent			
	(b) Decreases the concer		A + B	
	(c) Causes loss of leaf bio			
	(d) Causes death of the p			
93.	2	•		
	(a) Insecticide	(b) Rodenticide	(c) Acaricide	(d) Molluscide
94.		bstance pr4vtred fron	n a secretion that enci	usts the bodies of a scale
	insect :			
	(a) Viverra civet		(b) Karria lacca	
	(c) Acipenser huso		(d) Alverites moschif	
95.			2	lle - like leaves ; monoecious
	or dioecious - sporophyl	*		
	(a) Cycadales	(b) Ginkgoales	(c) Taxales	(d) Coniferae
96.	In Gambir - fluorescin tes	st the petroleum spirit	layer shows a stron g :	
	(a) Green fluorescence		(b) Blue fluorescence	
	(c) Yellow fluorescence		(d) Red fluorescence	
97.	Antiviral action of Neem	in due to :		
	(a) Kaemferol	(b) Nelanin	(c) Nimbin	(d) Azadirachitin

(PHARMACOLOGY)

98. Characteristic microcapic features observed in Alzheimer's disease is:

- (a) Epidural haemoregic patches
- (b) Depigmentation of substantia nigra
- (c) Demyelination of neurons in spinal cord
- (d) Presence of neutritic plaques containing Ab-amyloid

99. Cardiac output is:

- (a) Volume of blood ejected by the auride per minute
- (b) Volume of the blood ejected by the left ventricle per beat
- (c) Volume of the blood ejected by the left ventricle per minute
- (d) Volume of blood ejected by the auricles per beat

100. What are sutures?

- (a) Cartilaginous joints
- (c) Synovial joints

- (b) Non fibrous joints
- (d) Fibrous joints of the skull

101. Following are the facts regarding clinical applications of muscarinic receptor blocking drugs. Identify the false statement: (a) Used in the treatment of parkinson's disease is often an excercise in polypharmacy, since no single agent is fully effective. (b) Marked reflex vagal discharge may stimulate sinoatrial oratrioventricular node to improve cardiac output. (c) Mydriasis produced greatly facilitates opthalmoscopic examination of the retina and measurement of refractive error in uncooperative patient. (d) Scopolamine is one among the old remedies used to treat sea-sickness 102. Which of the following cells are called scavenger cells? (a) Neutrophils (b) Natural killer cells (c) Marcrophages (d) Mast cells **103.** Which is NOT true about calcitriol? (a) It is active form of Vit D_a (b) It enhances reabsorption of calcium and phosphate from bone (c) It prevents tubular reabsorption of calcium and phosphate (d) Enhances absorption of calcium and phosphate from intestine 104. Production of an abnormal lgG immunoglohulin in Grave's disease causes: (b) Hypothyroidism (a) Multinodular goitre (c) Thyrotoxicosis (d) Rheumatoid arthritis 105. Metabolic acidosis does NOT occur during : (a) Starvation (b) Chronic renal failure (c) Wound healing (d) Uncontrolled diabetes mellitus **106.** Glucocorticoids have following effects - EXCEPT: (a) Stimulation of immune responses (b) Resistance to stress (d) Protein breakdown and glucose formation (c) Lipolysis **107.** Which one of the following is NOT' the role of Nitric oxide? (a) Reliving vascular smooth muscle collegebatch.com (b) Mediating microbicidal action of macrophages (c) Serving as neurotransmitter in CNS (d) Inducing platelet aggregation **108.** Identify the drug which is not useful in the treatment of tuberculosis: (a) Pyrazinamide (b) Gentamicin (c) Streptomycin (d) Ciprofloxacin 109. What is anaplasia? (a) Morphological and functional alterations/changes, that are different from normal cells (b) Morphological and functional resemblance to normal cells (c) Increase in size of cell (d) Lack of growth of cells **110.** Match the following liver abnormalities with consequences: (M) Raised hiliruhin level (a) Steatosis (b) Cholestasis (N) Slight rise in serum transaminase level (c) Hepatitis (0) Accumulation of fat droplets within liver cells (P) lilevated liver function test (LFT's) (d) Fibrosis (a) (a) - (N), (b) - (P), (c) - (M), (d) - (O) (b) (a) - (O), (b) - (M), (c) - (P), (d) - (N)(c) (a) - (N), (b) - (O), (c) - (P), (d) - (M)(d) (a) - (P), (b) - (O), (c) - (N), (d) - (M)**111.** Numerous isomers of human liver P450 enzyme have been identified, it is not worthy that _____alone is responsible for the metabolism of over 55% of the prescription drugs metabolized by liver. (a) CYP3A4 (b) CYPIA2 (c) CYP1A11 (d) CYP2B6 112. Which of the following directly inhibits Factor Xa? (a) Dabigatran (b) Warfarin (c) Bivalirudin (d) Rivaroxahan

	· · · · · · · · · · · · · · · · · · ·		itatory glutamatergic synapse
(a) Valproate	GABA mediated Cl channe (b) Ethosuximide	(c) Topiramate	(d) Phenytoin
	wing is NOT a cardioselec		(u) menytom
(a) Bisoprolol	(b) Nebivolol	(c) Acebutolol	(d) Pindolol
115. The term 'aneury		(c) Accoutoion	
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4 7	normal dilatation of blood	vessel	
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(a) 5HT,	(b) D ₂	(c) M,	(d) H ₁
	statement about benzodiaz		*
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() 1	nes cause convulsions	liety	
	ies produce muscle relaxat	tion and loss of motor o	o-ordination
	nes are useful in insomnia		oorumation
	wing is 5-alpha reductase		
(a) Gliclazide	(b) Sildenafil	(c) Finasteride	(d) Polvthiazide
			sues attract phagocytes, this
phenomenon is ca	_		
P			
(a) Phagocytosis	(b) Integrins	(c) Chemotaxis	(d) Emigration
		(c) Chemotaxis	(d) Emigration
120. Hematocrit 65% t	o 70% indicates:		
120. Hematocrit 65% to (a) Hemophilia	o 70% indicates: (b) Polycythemia	(c) Hypoxia	(d) Anaemia
120. Hematocrit 65% to(a) Hemophilia121. The adverse reaction	o 70% indicates: (b) Polycythemia	(c) Hypoxia agonists administered	
120. Hematocrit 65% to(a) Hemophilia121. The adverse reaction	o 70% indicates: (b) Polycythemia tion associated with â-2 of asthma does not include	(c) Hypoxia agonists administered	(d) Anaemia
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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-c	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-c	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-с	98-d	99-с	100-d
101-b	102-c	103-с	104-c	105-c	106-a	107-d	108-b	109-a	110-b
111-a	112-d	113-а	114-d	115-b	116-с	117-b	118-c	119-с	120-b
121-b	122-d	123-с	124-d	125-с					

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