

GPAT - 2010

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GPAT QUESTIONS

l.	The vitamin essential in t	issue culture medium is				
	(a) Pyridoxine		(b)	Thiamine		
	(c) Nicotinic acid		(d)	Inositol		
2.	Gingkgo biloba is used for	r its				
	(a) Expectorant activity		(b)	Lipid lowering activit	ty	
	(c) PAF antagonistic activ	vity	(d)	Antidepressant activi	ity	
3.	The amount of barbaloin	present in Aloe vera is				
	(a) <1%	(b) 3.5-4%	(c)	1-1.5%	(d)	2-2.5%
4.	Sildenafil is used for treat	ment of one of the followin	ng D	isorders:		
	(a) Systolic hypertension	n	(b)	Unstable angina		
	(c) Pulmonary hyperten	sion DISC	(d)	Hypertension due to	eclam	psia
5.	Cardiac glycosides have the	he following configuration	in th	ne aglycone part of the	stero	id nucleus
	(a) 5α , 14α –	(b) 5α, 14β-	(c)	5β, 14α	(d)	5β, 14β-
6.	Quassia wood is adulterate	ted with				
	(a) Brucea antidysentrica	a	(b)	Cassia angustifoila		
	(c) Cinnamomum zeylanı	icum	(d)	Cephaelis ipecacuana	ha	
7.	Eugenol is present in					
	(a) Fennel	(b) Tuki	(c)	Cardamom	(d)	Coriander
8.	Which one of the following	g drugs is prescribed for the	trea	tment of Philadelphichr	omos	ome positive patients
	with chronic myeloid Leu	ıkemia?				
	(a) Pentostatin	(b) Methotrexate	(c)	Imatinib	(d)	L-Asparaginase
9.	Which of the following m	onoclonal antibodies is pro	escri	bed for patients with	nonHo	odgkin's Lymphoma
	(a) Infliximab	(b) Abciximab	(c)	Gemtuzumab	(d)	Rituximab
10.	Identify the drug which is	NOT used in the treatmen	t of 1	malaria caused by <i>Plasr</i>	nodiu	m falciparum:
	(a) Artemisinin	(b) Primaquine	(c)	Quinine	(d)	Mefloquine
11.	Which one of the following	ng drugs does NOT act thro	ough	G-Protein coupled rec	ceptor	S
	(a) Epinephrine	(b) Insulin	(c)	Dopamine	(d) T	TSH
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12.	Which one of the following	g drugs is most effective in p	oreve	enting transmission of	HIVτ	virus from the mother
	to the foetus					
	(a) Lamivudine	(b) Zidovudine	(c)	Indinavir	(d)	Ribavirin
13.	Improvement of memo	ory in Alzheimer's disea	ase	is brought about by	drı drı	igs which increase
	transmission in					
	(a) Cholinergic receptor	S	(b)	Dopaminergic recept	ors	
	(c) GABAergic receptors	3	(d)	Adrenergic receptors	S	
14.	Which of the following no	on-opioid analgesic is a pro	drug	g		
	(a) Piroxicam	(b) Celecoxib	(c)	Nabumetone	(d)	Ketorolac
15.	Which one of the followin	ng drugs is NOT a typical ar	ıti-p	sychotic agent		
	(a) Chlorpromazine	(b) Haloperidol	(c)	Risperidone	(d)	Flupentixol
16.	Which one of the following	ngs is a plasminogen activa	tor			
	(a) Tranexamic acid	(b) Streptokinase	(c)	Aminocaproic acid	(d)	None
17.	Myasthenia gravis is diag	nosed with improved neur	omu	scular function by usin	ng	
	(a) Donepezil	(b) Edrophonium	(c)	Atropine	(d)	Pancuronium
18.	Which one of the followin	ng drugs specifically inhibits	cak	ineurin in the activate	d T-I	Lymphocytes
	(a) Daclizumab	(b) Prednisone	(c)	Sirolimus	(d)	Tacrolimus
19.	The chemical behaviour of	of morphine alkaloid is	J J	L E D		
	(a) Acidic	(b) Basic	(c)	Neutral	(d)	Amphoteric
20.	At physiological pH the fo	ollowing compound would b	e M	OSTLY in the		
	H H S S	— СН ₃				
	CO	ОН				
	(a) Cationic form		(b)	Unionized form		
	(c) Zwitterionic form		(d)	Anionic form		
21.	Which one of the following convulsions?	ngs is used as a mood stabi	lizer	for bipolar disorder an	nd al	so in certain epileptic
	(a) Phenytoin	(b) Lithium	(c)	Sodium valproate	(d)	Fluoxetine
22.	An isosteric replacement	for carboxylic acid group i	S			
	(a) Pyrrole	(b) Isoxazole	(c)	Phenol	(d)	Tetrazole
23.	The given antibiotic is an	example of ansamycins				
	(a) Roxythromycin	(b) Adriamycin	(c)	Aureomycin	(d)	Rifamycin
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24.	For glyburide, all of the following metabolic rea	actions are logical EXCEPT	
	(a) O-demethylation	(b) Aromatic oxidation	
	(c) Benzylic hydroxylation	(d) Amide hydrolysis	
25.	The effects observed following systemic admin	nistration of levodopa in the treatment of Pa	arkinsonism has
	been attributed to its catabolism to dopamin	ne. Carbidopa, can markedly increase th	e proportion of
	levodopa that crosses the bloodbrain barrier b	py	
	(a) Increasing penetration of levodopa through	h BBB by complexation with it	
	(b) Decreasing peripheral metabolism of levo	dopa	
	(c) Decreasing metabolism of levodopa in the	CNS	
	(d) Decreasing clearance of levodopa from the	e CNS	
26.	Ethambutol molecule has		
	(a) Two chiral centers and 3 stereoisomers	(b) Two chiral centers and 4 stere	oisomers
	(c) Two chiral centers and 2 stereoisomers	(d) One chiral center and 2 stereo	isomers
27.	A compound will be sensitive towards IR radi	iation only when one of the following pro	perties undergo
	transition on		
	(a) Polarizability	(b) Dielectric constant	
	(c) Dipole moment	(d) Refractivity	
28.	X-ray crystallographic analysis of an optically a	active compound determines its	
	(a) Optical rotatory dispersive power	(b) Absolute configuration	
	(c) Relative configuration	(d) Optical purity	
29.	Which one of the following statements is WRO	NG	
	(a) A singlet or triplet state may result when	one of the electrons from the HOMO is e	xcited to higher
	energy levels		
	(b) In an excited singlet state, the spin of the	e electron in the higher energy orbital is	paired with the
	electron in the ground state orbital		
	(c) Triplet excited state is more stable than the	e singlet excited state	
	(d) When the electron from the singlet excited	d state returns to ground state, the molecu	le always shows
	fluorescence phenomenon.		
30.	Aminotransferases usually require the following	ng for their activity	
	(a) Niacinamide	(b) Vitamin B ₁₂	
	(c) Pyridoxal phosphate	(d) Thiamine	
31.	Purity of water can be assessed by determining	g one of its following propertiesinstrumen	tally
	(a) pH	(b) Refractivity	
	(c) Viscosity	(d) Conductivity	
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32.	Which one of the following	statements is WRONG			
	(a) Carbon NMR is less sen	sitive than proton NMR			
	(b) ¹² C nucleus is not magne	etically active			
	(c) Both ¹³ C and ¹ H have sa	ame spin quantum numb	ers		
	(d) The gyromagnetic ratio	of ${}^{1}\mathrm{H}$ is lesser than that	of 12	С	
33.	In the TCA cycle, at which of	the following enzyme-ca	talyz	ed steps, incorporatio	n ofelements of water into
	an intermediate of the cycle	takes place			
	(a) Citrate synthase		(b)	Aconitase	
	(c) Maleate dehydrogenase		(d)	Succinyl Co-A synthag	se
34.	Humectants added in cosmet	tic preparations generall	y act	: by	
	(a) Hydrogen bond format	on	(b)	Covalent bond format	tion
	(c) Complex formation		(d)	The action of London	forces
35.	In the mixing of thymol and	menthol the following ty	pe o	f incompatibility occur	rs
	(a) Chemical incompatibility	y	(b)	Therapeutic incompa	tibility
	(c) Physical incompatibility		(d)	Tolerance incompatib	ility
36.	Bloom strength is used to ch	eck the quality of	F	41	
	(a) Lactose	DISCI	(b)	Ampoules	
	(c) Hardness of tablets		(d)	Gelatin	
37.	The characteristic of non-lir	ear pharmacokinetics in	ıclud	e	
	(a) Area under the curve is	proportional to the dose	e		
	(b) Elimination half-life ren	nains constant,			
	(c) Area under the curve is	not proportional to the	dose		
	(d) Amount of drug excrete	ed through remains cons	tant		
38.	In the Drugs and Cosmetics	Act and Rules, the Sched	ule r	elating to GMP is	
	(a) Schedule M (l	o) Schedule C	(c)	Schedule Y	(d) Schedule H
39.	Thioglycolic acid-like compo	unds have applications i	n fol	lowing type of cosmet	ic formulations
	(a) Depilatory preparations	5	(b)	Epilatory preparations	S
	(c) Vanishing creams		(d)	Skin tan preparations	5
40.	Which one of the following	s a flocculating agent for	an	egatively charged drug	3
	(a) Aluminium chloride		(b)	Bentonite	
	(c) Tragacanth		(d)	Sodium biphosphate	
41.	The healing agent used in h	and creams is			

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(b) Urea

(a) Soft paraffin

(c) Bees wax

(d) Stearyl alcohol





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42.	Measurement of inulin renal clearance is a measure	for		
	(a) Effective renal blood flow	(b)	Renal drug excretion	rate
	(c) Active renal secretion	(d)	Glomerular filtration	rate
43.	Highly branched three dimensional macromolecules	with	controlled structures	with all bonds originating
	from a central core are known as			
	(a) Cyclodextrins (b) Dextrans	(c)	Dendrimers	(d) Liposomes
44.	Which one of the following is the commonly used bul	lking	agent in the formulati	on offreeze dried low dose
	drug products?			
	(a) Sodium chloride (b) Mannitol	(c)	Starch	(d) HPMC
45.	The applicability of Noyes-Whitney equation is to de	scrib	e	
	(a) First order kinetics	(b)	Zero order kinetics	
	(c) Mixed order kinetics	(d)	Dissolution rate	
46.	Which filler can NOT be used for the preparation	of ta	blets for amine contai	ning basic drugs to avoid
	discoloration of the tablets?			
	(a) Dicakium phosphate	(b)	Microcrystalline cellu	lose
	(c) Starch	(d)	Lactose	
47.	The ability of human eye using illuminated area to de	etect	a particle is limited to	
	(a) 0.4 micron (b) 25 micron (c)	5 0	micron (d) 10 n	nicrons
48.	What quantities of 95 % v/v and 45 % v/v alcohols a	are to	be mixed to make 80	0 mL of65 % v/v akohol?
	(a) 480 mL of 95 % and 320 mL of 45 % alcohol			
	(b) 320 mL of 95 % and 480 mL of 45 % alcohol			
	(c) 440 mL of 95 % and 360 mL of 45 % alcohol			
	(d) 360 mL of 95 % and 440 mL of 45 % alcohol			
49.	The role of borax in cold creams is			
	(a) Anti-microbial agent	(b)	To provide fine partic	eles to polish skin
	(c) In-situ emulsifier	(d)	Antioxidant	
50.	Choose the right combination			
	(a) Quinine, antimalarial, isoquinoline alkaloid			
	(b) Reserpine, antihypertensive, indole alkaloid			
	(c) Quantitative microscopy, stomatal number, myrr	rh		
	(d) Palmitic acid, salicylic acid, fatty acids			
51.	Triterpenoids are active constituents of			
	(a) Jaborandi (b) Rhubarb	(c)	Stramonium	(d) Brahmi

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52.	Alkaloids are NOT precipitated by		
	(a) Mayer's reagent	(b)	Dragendroff Reagent
	(c) Picric acid	(d)	Millon's reagent
53.	Anisocytic stomata are present in		
	(a) Senna (b) Digitalis	(c)	Belladonna (d) Coca
54.	Bacopa monnieri plant belongs to the family		
	(a) Scrophulariacea	(b)	Leguminosae
	(c) Polygalaceae	(d)	Rubiaceae
55.	Tropane alkaloids are NOT present in		
	(a) Datura stramonium	(b)	Erythroxylum coca
	(c) Duboisia myoporoides	(d)	Lobelia inflate
56.	Guggul lipids are obtained from		
	(a) Commiphora molmol	(b)	Boswellia serrata
	(c) Commiphora wightii	(d)	Commiphora abyssinica
57.	An example of N-glycoside is		
	(a) Adenosine (b) Sinigrin	(c)	Rhein-8-glucoside (d) Aloin
58.	One mg of Lycopodium spores used in quantitative in	micr	oscopy contains an average of
	(a) 94,000 spores \(\text{ C E N}	(b)	92,000 spores
	(c) 90,000 spores	(d)	91,000 spores
59.	Select the correct combination of drugs for the treatr	nent	of patients suffering from Hepatitis C
	(a) Interferon with Ribavirin	(b)	Interferon with Zidovudine
	(c) Interferon with Stavudine	(d)	Interferon with Lamivudine
60.	ALISKIREN acts by		
	(a) Inhibiting the conversion of Angiotensin I to II		
	(b) Inhibiting the release of rennin		
	(c) Inhibiting the binding of Angiotensin II to the rec	epto	or
	(d) Inhibiting the action of aldosterone		
61.	Digitalis toxicity is enhanced by co-administration of		
	(a) Potassium (b) Quinidine	(c)	Diuretics (d) Antacids
62.	The rate limiting step in cholesterol biosynthesis is o		
	(a) LDL-receptor concentration	(b)	VLDL secretion
	(c) Mevalonic acid formation	(d)	Co-enzyme A formation

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63.	Which one of the following drugs is withdraw	n from the market due to torsade de pointes	
	(a) Chlorpromazine	(b) Astemizole	
	(c) Haloperidol	(d) Domperidone	
64.	Ganciclovir is mainly used for the treatment o	f infection caused by	
	(a) Cytomegalovirus	(b) Candida albicans	
	(c) Herpes zoster virus	(d) Hepatitis B virus	
65.	Identify the one rational combination which h	as clinical benefit:	
	(a) Norfloxacin – Metronidazole	(b) Alprazolam - Paracetamol	
	(c) Cisapride – Omeprazole	(d) Amoxycillin - Clavulanic acid	
66.	Stevens Johnson syndrome is the most commo	n adverse effect associated with one ofthe follo	wing category
	of drugs		
	(a) Sulphonamides	(b) Macrolides	
	(c) Penicillins	(d) Tetracyclines	
67.	Amitryptyline is synthesized from the following	ng starting material	
	(a) Phthalic anhydride	(b) Terephthalic acid	
	(c) Phthalamic acid	(d)—Phthalimide	
68.	The common structural feature amongst the	e three categories of anti-convulsant drugs	Barbiturates,
	succinimides and hydantoins is	ENTER	
	(a) Ureide	(b) Imidazolidinone	
	(c) Dihydropyrimidine	(d) Tetrahydropyrimidine	
69.	Nicotinic action of acetylcholine is blocked by		
	(a) Atropine	(b) Carvedilol	
	(c) Neostigmine	(d) d-Tubocurarine	
70.	Chemical nomenclature of procaine is		
	(a) 2-Diethylaminoethyl 4-aminobenzoate		
	(b) N,N-Diethyl 4-aminobenzoate		
	(c) 4-Aminobenzamidoethyl amine		
	(d) 4-Amino-2-diethylaminoethyl benzoate		
71.	Barbiturates with substitution at the following		7 :
	(a) 1,3-Disubstitution	(b) 5,5-Disubstitution	
	(c) 1,5-Disubstitution	(d) 3,3-Disubstitution	
72.	Selective serotonin reuptake inhibitor is		
	(a) Imipramine	(b) Iproniazide	
	(c) Fluoxetin	(d) Naphazoline	
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73.	Proton pump inhibitors like omeprazole and lansop	razole contain the following ring System:
	(a) Pyrimidine	(b) Benzimidazole
	(c) Benzothiazole	(d) Oxindole
74.	A metabolite obtained from Aspergillus terreus	that can bind very tightly to HMG CoAreductas
	enzyme is	
	(a) Fluvastatin	(b) Cerivastatin
	(c) Lovastatin	(d) Somatostatin
75.	Cyclophosphamide as anticancer agent acts as	
	(a) Alkylating agent before metabolism	(b) Alkylating agent after metabolism
	(c) Phosphorylating agent after metabolism	(d) DNA intercalating agent
76.	Artemisinin contains the following group in its struc	ture
	(a) An endoperoxide	(b) An exoperoxide
	(c) An epoxide	(d) An acid hydrazide
77.	Indicate the HPLC detector that is most sensitive to	change in temperature
	(a) PDA detector	(b) Refractive Index detector
	(c) Electrochemical detector	(d) Fluorescence detector
78.	One of the following statements is NOT true	IICCION
	(a) Accuracy expresses the correctness of measure	ement
	(b) Precision represents reproducibility of measure	ement
	(c) High degree of precision implies high degree of	accuracy also
	(d) High degree of accuracy implies high degree of	precesion also
79.	In thiazides following substituent is essential for diur	retic activity
	(a) Chloro group at position 6	(b) Methyl group at position 2
	(c) Sulphamoyl group at position 7	(d) Hydrophobic group at position 3
80.	Streptomycin can NOT be given orally for treatment	of tuberculosis because
	(a) It gets degraded in the GIT	(b) it causes severe diarrhoea
	(c) It causes metallic taste in the mouth	(d) it is not absorbed from the GIT
81.	In organic molecules, fluorescence seldom results	s from absorption of UV radiation of wavelength
	lower than	
	(a) 350 nm (b) 200 nm	(c) 300 nm (d) 250 nm
82.	Glass transition temperature is detected through	
	(a) X-Ray diffractometery	(b) Solution calorimetery
	(c) Differential scanning calorimetery	(d) Thermogravimetric analysis

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83.	In Gas-Liquid Chromatography, some of the samp		ease their
	(a) Volatility	(b) Solubility	
	(c) Thermal conductivity	(d) Polarizability	
84.	Oxidative phosphorylation involves		
	(a) Electron transport system		
	(b) Substrate level phosphorylation		
	(c) Reaction catalyzed by succinic thiokinase in T	CCA cycle	
	(d) None of the above		
85.	Coulter counter is used in determination of		
	(a) Particle surface area	(b) Particle size	
	(c) Particle volume	(d) All of the above	
86.	Drugs following one compartment open model ph	armacokinetics eliminate	
	(a) Bi-exponentially	(b) Tri-exponentially	
	(c) Non-exponentially	(d) Mono-exponentially	
87.	The temperature condition for storage of drug pr	oducts under cold temperature is given A	5:
	(a) Temperature between 8°C and 25°C	(b) temperature below 20°C	
	(c) Temperature at 0°C	(d) temperature between 2°C and 8°C	C
88.	Many xenobiotics are oxidized by cytochrome P4	50 in order to	
	(a) Increase their biological activity	NIEK	
	(b) Increase their disposition in lipophilic compa	artments of the body	
	(c) Increase their aqueous solubility		
	(d) All of the above		
89.	The following protein/polypeptide has a quatern	ary structure	
	(a) cc-Chymotrypsin	(b) Hemoglobin	
	(c) Insulin	(d) Myoglobin	
90.	Drugs in suspensions and semi-solid formulation	s always degrade by	
	(a) First order kinetics	(b) Second order kinetics	
	(c) Zero order kinetics	(d) Non-linear kinetics	
91.	In nail polish, following polymer is used as a film-	former	
	(a) Nitrocellulose	(b) Polylactic acid	
	(c) Hydroxypropyl methylcellulose	(d) Cellulose acetate phthalate	
92.	Rabies vaccine (living) is prepared using		
	(a) Sheep blood	(b) Mice lymph	
	(c) Horse plasma	(d) Fertile eggs	
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93.	A dı	rug (200 mg dose) adm	inistered in tablet form and	d as	intravenous inject	ion (50 mg dose) showed AUG	
	of 1	.00 and 200 microgra	am hr/mL, respectively. [Гhе	absolute availabil	lity (of the drug through oral	
	adm	ninistration is						
	(a)	125%	(b) 250 %	(c)	12.5%	(d)	1.25%	
94.	Geri	iatric populations shou	ld be included in the follow	ing l	Phase of clinical tr	ials		
	(a)	Phase I	(b) Phase II	(c)	Phase III	(d)	Phase IV	
95.	Clas	s 100 area is referred	to					
	(a)	Manufacturing area		(b)	Aseptic area			
	(c)	Clean room		(d)	Ware house			
96.	Hov	v many mL of a 1:500	w/v stock solution should	be u	sed to make 5 lite	rs of	1:2000 w/v solution	
	(a)	750 mL	(b) 1000 ml	(c)	1250 mL	(d)	1500 mL	
97.	The	Volume of distribution	n of a drug administered at	a do	se of 300 mg and	exhi	biting 30 microgram /mL	
	inst	antaneous concentratio	on in plasma shall be					
	(a)	10 L	(b) 100 L	(c)	1.0 L	(d)	0.10 L	
98.	It is	required to maintain	a therapeutic concentratio	n of	10 microgram/mI	for	12 hoursof a drug having	
	half	life of 1.386 hr and Vo	d of 5 L. The dose required	in a	sustained release	pro	duct will be	
	(a)	600 mg	(b) 300 mg	(c)	30 mg	(d)	60 mg	
99.	Whi	ich one of the following	g is NOT an ex-officio men	ıber	of Pharmacy Cou	ncil (of India	
	(a)	The Director General	of Health Services	И Т				
	(b) The Director of Central Drugs Laboratory							
	(c) The Drugs Controller General of India							
	(d)	The Director of Pharm	macopoeia Laboratory					
100.	In v	which of the following t	echniques the sample is ke	ept b	elow triple point			
	(a)	Lyophilization		(b)	Spray drying			
	(c)	Spray congealing		(d)	Centrifugation			

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ANSWER KEY GPAT 2010

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

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