

GPAT - 2016

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GPAT QUESTIONS

1.	What is the Carr's index	of good flow powder prope	erty			
	(a) 5-15	(b) 12-16	(c)	18-21	(d)	28-35
2.	Which microorganism is	involved in the assay of Ri	famp	icin		
	(a) Bacillus subtilis	(b) Micrococcus luteus	(c)	Bacillus pumilus	(d)	Bacillus cereus
3.	Which percentage of dext	rose is isotonic with the b	lood	plasma		
	(a) 5%	(b) 10%	(c)	15%	(d)	20%
4.	What is the biological so	urce of Alexandrian Senna				
	(a) Cassia aungustifolia		(b)	Cassia acutifolia		
	(c) Cassia Bravifolia		(d)	Cassia Nerifolia		
5.	HLB of SPAN and TWEEN	I surfactants may be obtain	ied fr	om which of the follow	wing	equations
	(a) $HLB = E/5$	DIGG	TIC	CIONI		
	(b) $HLB = (E+P)/5$	DISC		SION		
	(c) $HLB = 20 [(1-S)/A)]$	V CE	.\ .	ΓER		
	(d) HLB = (hydrophilic g	group numbers)- (lipophili	c gro	up numbers)+7		
6.	If the given drug is absor	bed by passive what will b	e its a	absorption kinetics		
	(a) Zero Order		(b)	First Order		
	(c) Second order		(d)	Pseudo-zero Order		
7.	Which of the following is	delayed type of her sensiti	vity r	eaction		
	(a) Arthus reaction		(b)	Penicillin sensitivity		
	(c) Tubercullin sensitivi	ty	(d)	ABO incompatibity		
8.	Which of the following is	NOT suitable as a post-coit	al co	ntraceptive		
	(a) Levonorgestrel 1.5m	ıg	(b)	Ulipristal acetate 30 r	ng	
	(c) Mifepristone 10-25 i	ng	(d)	Mestranol 1.5 mg		
9.	Which of the following pr	roperties are characteristic	cs of	tannis		
	(P) They give a precipita	te with alkaloids				
	(Q) They give a yellow of	f bluish red color with iron	(III)	chloride		
	(R) They transform hide	into leather				
	(S) They give a pale-pink	precipipate with iodine				
	(a) P, Q, S	(b) P and Q	(c)	P and R	(d)	Only Q
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10.	Adverse drug Event reporting in the responsibility o		_	
	(a) Pharmacist and physician	` ,	Manufacturer	
	(c) Consumer	(d)	Regulatory authorities	
11.	Time dependent dilatant behavior is knows as			
	(a) Thixotrophy (b) Rheopexy	(c)	Rheomalaxis (d) Plastic
12.	Chairman of DTAB is:			
	(a) Health minister of India	(b)	Director general of Health s	services
	(c) Drug controller of India	(d)	President of AICTE	
13.	Plasmodesmata is:			
	(a) Lignified element	(b)	Vascular element	
	(c) Very fine protoplasmic thread	(d)	None	
14.	Efficiency of drug is checked in modest population in	l		
	(a) Clinical trail-phase1	(b)	Clinical trail-phase2	
	(c) Clinical trail-phase3	(d)	Clinical trail-phase4	
15.	Which of the following statements is correct for gran	n po	sitive becteria	
	(a) Cell wall has a thin peptidoglycan layer			
	(b) Cell wall lipid content is very low and smaller vo	lum	e of periplasm	
	(c) Lipopolysaccharide layer is present	TC	SION	
	(d) Teichoic acid is present	J J	FR	
16.	The terms upper consulate temperature and lower con	ısula	te temperature are related to	which phenomenor
	(a) Cloud point	(b)	Critical solution temperatur	·e
	(c) Kraft point	(d)	Phase inversion	
17.	Match the alkaloids with their synthesis precursors.			
	(1) Pilocarpine	(P)	Necleotide	
	(2) Connine		Tryptophan	
	(3) Caffine		Histadine	
	(4) Yohimbine	` '	Acetate derived	
	(a) 1-S, 2-R, 3-P, 4-Q		1-S, 2-Q, 3-P, 4-R	
4.0	(c) 1-P, 2-R, 3-S, 4-Q	• •	1-R, 2-S, 3-P, 4-Q	
18.	Which one of the following is a solid dosage form			role of a diluent,
	disintegrant, a glidant, a lubricant and a pore/ chann			
	(a) Lactose	• •	Microcrystalline cellulose	
	(c) Ethyl cellulose		Eudragit RL 100	
19.	What is the required floor area for running a pharm			
	(a) 6 sq meters		10 sq meters	
	(c) 15 sq meters	(d)	30 sq meters	
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20.	Bioavailability differences among drug's oral formula	ition	s are most likely to occur if it
	(a) Is freely water soluble	(b)	Is incompletely absorbed
	(c) Is completely absorbed	(d)	Undergoes little first-pass metabolism
21.	Match the drug with their receptor profiles		
	(1) Ergotamine	(P)	5-HT _{2A} antagonist
	(2) Ondansetron	(Q)	5-HT ₁ partial agonist /antagonist
	(3) Sumartriptan	(R)	5-HT ₃ antagonist
	(4) Ketanserin	(S)	5-HT _{1D} agonist
	(a) 1-R, 2-S, 3-Q, 4-P	(b)	1-Q, 2-R, 3-S, 4-P
	(c) 1-R, 2-S, 3-P, 4-Q	(d)	1-S, 2-R, 3-P, 4-Q
22.	What strategy of drug design is frequently used on co	mple	ex lead compounds derived from natural product
	(a) Extension	(b)	Simplication
	(c) Rigidication	(d)	Conformational block
23.	Which type of photon detector is commonly microfabi	ricate	ed into arrays of 500 or More individual detector
	(a) Photocell	(b)	Phototube
	(c) Photumultiplier tube	(d)	Photodiode
24.	Which of the following is a physe II drug metabolism	rea	ction associated with genetic polymorphism
	(a) Glucuroinidation	(b)	Acytylation
	(c) Reduction	(d)	Glutathione conjugation
25.	A gram-negative diplococcus associated with urina	ry tr	act infection , pelvic inflammatory disease and
	conjunctivitis, meningitis is		
	(a) Neissria gonorrhoeae	(b)	Chlamdia Trachomatis
	(c) Hemophilus influenza	(d)	Streptococcus pneumoniae
26.	Pregnancy test kits are designed to detect		
	(a) Estrogen	(b)	Human chorionic gonadotropin
	(c) Follicle-stimulating hormone	(d)	Luteinizing hormone
27.	Drug Z is a depolarizing neuromuscular blocking age	nt ef	ffective for the treatment of pinworm.
	Identify drug Z		
	(a) Phyrantel	(b)	Paramomycin
	(c) Integrase	(d)	Protease
28.	Metheneamine used for UTI is a prodrug. How and t	o wł	nat is is converted into
	(a) At low pH of Urine, to formaldehye	(b)	At high pH of urine, to aminosalicylic acid
	(c) At low pH of Urine, to amonosalicylic acid	(d)	At high pH of urine,to formaldehye
29.	The correct order for the basic features of a mass sp	ectr	ometer is
	(a) Acceleration, deflection, detection, ionization	(b)	Ionization ,Acceleration, deflection, detection
	(c) Acceleration, ionization, deflection, detection	(d)	Acceleration, deflection, ionization, detection



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30.	Match the following enzymes/protein with specific	functions in DNA replication					
	(1) Helicases	(P) Processive unwinding of DNA					
	(2) DNA Primses	(Q) Seals the single strand					
	(3) DNA ligases	(R) Relieves torsional strain					
	(4) Topiosomerases	(S) Initates synthesis of RNA Primers					
	(a) 1-P, 2-Q, 3-R, 4-S	(b) 1-P, 2-S, 3-Q, 4-R					
	(c) 1-S, 2-Q, 3-P, 4-R	(d) 1-P, 2-Q, 3-R, 4-S					
31.	Which is the first line drug for the treatment of gen	neralized seizures					
	(a) Valproic acid	(b) Anhydortetracycline					
	(c) Carbamazepine	(d) Doxycycline					
32	Tetracyline in basic solution is usstable and forms	which product					
	(a) Epithtracycline	(b) Anhydrotetracycline					
	(c) Isotetracycline	(d) Doxycycline					
33.	The location of the blood-brain barrier is considered	ed to be					
	(a) At the level of the brain capillaries	(b) At the level of gila					
	(c) At the level of neorons	(d) At the level of dendrites					
34.	The following drug metabolizing reaction in entire	ly non-microsomal:					
	(a) Glucuronide conjugation	(b) Acetylation					
	(c) Oxidation	(d) Reduction					
35.	Which of the following methods is used to determin	e whether a process functions properly for its intended					
	use						
	(a) Capacity	(b) Inspection					
	(c) Validation	(d) Design Review					
36.	Match product, source and plant part form which t	hey areobtained					
	(1) Bacosides (P) Aciacia catechu	(i) Herb					
	(2) Cutch (P) Rubiatictorium	(ii) Leaf					
	(3) Henna (R) Bacopamonnieri	(iii) Root					
	(4) Alizarm (S) Lawsoniainternis	(iv) Stem					
	(a) 1-R-ii, 2-S-I, 3Q-Q-iii, 4-P-iv	(b) 1-R-I, 2-P-iv, 3-S-ii, 4-Q-i					
	(c) 1-Q-ii, 2-P-iii, 3-S-iv, 4-R-I	(d) 1-S-ii, 2-R-iv, 3-P-I, 4-Q-i					
37.	What is the significance of term overfill						
	(a) It is similar to overage						
	(b) It is the excess volume to be field in containers	s as vials, ampoules to avoid loss by degradation					
	(c) It is the excess filing of container as vials, amp	oules to avoid the loss during case					
	(d) It is violation of packaging regulation as per GMP						

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Jo. Identity the labe suttillent	38.	Identity	the fa	lse state	ments
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- (a) A characteristics of drugs eliminated by zero order kinetic process is that the half –life is not constrains
- (b) The plasma drug concertation versus time curve for a drug eliminated by zero order kinetics linear
- (c) A fundamental characteristics of all first order pharmacogenetics processes is that the rate of the process is proportional to drug concentration
- (d) A characteristics of absorption by lipid diffusion is its saturability at high drug concentrations
- 39. 2', 3'-Didehydro-3'-deoxy thymidine is the chemical name of which of following antiviral agents
 - (a) Didenosine
- (b) Zidovudine
- (c) Stavudine
- (d) Zakitabine
- 40. Oseltamivir is antiviral drug. It produces its action by inhibiting which enzymes
 - (a) DNA polymerase

(b) Neuraminidase

(c) Praziquantel

- (d) Ivermectin
- 41. In NMR spectrum, a signal is observed as triplet. What will be the ratio of relative peak areas in this signal
 - (a) 1:1:1

(b) 1:2:1

(c) 1:3:1

- (d) 1:4:1
- 42. Which problem can arise if the material to be compressed into tablet tends to adhere to die walls
 - (a) Picking
- (b) Sticking
- (c) Capping
- (d) Marbling

- 43. What is the half life of Tc-99m
 - (a) 66 years
- (b) 66 hours
- (d) 60 minutes

- 44. Eudragits are
 - (a) Phthalate polymers

(b) Cellulose polymers

(c) Acrylate polymers

- (d) Amide polymers
- 45. Drugs (price control) order 1995 and related orders form time to time are enforceed by
 - (a) NPPA

(b) CSIR

(c) DBT

- (d) ICMR
- 46. Match the drugs with plant from which they are isolated and their families
 - (1) Artemisinin

(P) Periwinkle

(i) Dioscoreaceae

(2) Diosgenin

(Q) May apple

(ii) Apocynaceae

(3) Etoposide

(R) Sweet wormwood

(iii) Berberidaceae

- (4) Vinblastine and Vicnristine
- (S) Maxican wild yam

(iv) Asteraceae

(a) 1-R-iv, 2-S-i, 3-Q-iii, 4-P-ii

(b) 1-s-iv, 2-R-i, 3-Q-iii, 4-P-ii

(c) 1-Q-iii, 2-R-ii, 3-Q-i, 4-P-iv

- (d) 1-R-iv, 2-S-iii, 3-Q-i, 4-P-ii
- 47. Which of the following is an irreversible phenomenonralated to stability of emulsion
 - (a) Craking

(b) Creaming

(c) Coalescence

- (d) Flocculation
- 48. If a drug is highly bound to plasma proteins, what might be its reason or consequence
 - (a) It most likely carried by α -glycorprotien
- (b) It has a high renal clearance

(c) It has a large Vd

(d) It is a likely candidate for drug interactions

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49.	In order to make a generi	c substitution ; a pharmaci	ist must do also act as	a hydrogen bond acceptor
	(a) Notify the patient of	the substitution		
	(b) Charge the same or l	ower price for the generic		
	(c) Place the brand name	e on the label and write "su	ıbstitute for"	
	(d) Obtain the physician'	s consent to substitute the	product	
50.	Which of the following gr	oups can form ionic intera	ctions and also act as a	hydrogen bond acceptor
	(a) Hydroxyl group (OH))	(b) Carboxylate grou	p (RCOO)
	(c) Aminononium group	(RNH^{3+})	(d) Ketone (C=0)	
51.	Which of the following dr	ug does not give pink colou	ar with ruthenium red	
	(a) Agar	(b) Guar gum	(c) Pectin	(d) Isabgol
52.	The IUPAC name, 4-Amino	o-N(5,6-dimethoxy-4-pyrin	nidinly) benzenseulfona	nmide belong to which generic
	drug			
	(a) Sulfadimidine	(b) Sulfadoxine	(c) Sulfalene	(d) Sufamerazine
53.	Method of inspections us	ed to determine the absorp	otion rate constants. It a	issumes that
	(P) Ka is at least five time	e grater activities		
	(Q) Absorption in comple	ete (i.e. > 95% complete) at	the time of peak conce	entration
	(R) Both Absorption and	d elimination are first orde	er processes	
	(a) P and Q	(b) Q and R	(c) Q and R	(d) P and R
54.	The clinical trial registry i	n India is maintained by	A T E D	
	(a) World health organization	ation, Delhi		
	(b) Indian council of med	dical research , New Delhi		
	(c) Institute of Clinical R	esearch, New Delhi		
	(d) Central drugs standar	rd control Organization, Ne	ew Delhi	
55.	What is the correct order	for unsaturation in followi	ng fatty acids	
	(1) Palmitoleic Acid		(2) Linolenic	
	(3) Linoleic acid		(4) Arachidonic acid	
	(a) 1>2>3>4	(b) 3>4>2>1	(c) 4>3>2>1	(d) 4>2>3>1
56.	Which of the following is	an example of Diaz onium	ion	
	(a) $CH_3^+N_3^-$	(b) $CH_3N_2^+$	(c) $H_2N-NH_3^+$	(d) None of these
57.	Which term describes 'Th	ne degree to which a set of	f inherent properties o	f a product system , of rocess
	fulfils requirements, the b	est'		
	(a) Standard	(b) Quality	(c) Quality objective	(d) State of control
58.	What will be AUC value	of lidocaine if the adminis	stered dose is 0.2 g an	d the total body clearance is
	45 L/h			
	(a) 4.44 h.mg/L	(b) 0.0044 h.mg/L	(c) 9.00 h.gm/L	(d) 9000 h. mg/L



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59.	Toluene is converted of which compound in pres	sence of CrO ₃ with acetic anhydride
	(a) Benzyl akohol	(b) Benzaldehyde
	(c) Benzoic acid	(d) Benzoin
60.	Match the antimalarial drugs with their modes of	faction
	(1) Artemisinin	(P) Inhibition of parasite mitochondrial electron
		Tranport
	(2) Pyremethamine	(Q) Inhibition of heme polymerase
	(3) Quinine	(R) Generation of oxygen and carbon- centered
		redicals
	(4) Atovaquone/Proguanil	(S) Inhibition of dihydrofolate reductase
	(a) 1-P, 2-S, 3-Q, 4-R	(b) 1-Q, 2-S, 3-P, 4-R
	(c) 1-S, 2-R, 3-Q, 4-P	(d) 1-R, 2-S, 3-Q, 4-P
61.	Methyl ether of erythromycin is	
	(a) Clarithromycin	(b) Dirithromycina
	(c) Azithromycin	(d) Mithramycin
62.	Ebullioscopicmethod is based on which of the fo	ollowing observation
	(a) Freezing point depression	(b) Boiling point elevation
	(c) Osmotic pressure change	(d) None of the above
63.		
	(a) 7 (b) 11	(c) 14 (d) 18
64.	Which of the antibodies provide passive immuni	ity to newborn baby
	(a) lgG (b) lgM	(c) lgA (d) lgE
65.	Increased number of number mitosis may be pre	esent in the following tissue EXCEPT
	(a) Bone marrow cells (b) Nails	(c) Hepatocytes (d) Intestinal Cells
66.	To which chemical class the vinca alkaloids belon	
	(a) Tropane (b) Indole	(c) Tryptopha (d) Purine
67.	An antibiotic thatn resembles the 3' end of a cha	
	(a) Streptomycin (b) Vincamycin	(c) Puromycin (d) Tetracycline
68.		les are less than the adhesive forces between dissimilar
	molecules, a deviation in Raolt's law is observed.	
	(a) Positive	(b) Negative
	(c) Absent	(d) Either positive or negative
69.		nolics is higher plants is a product of which one of the
	following pathways	
	(a) Shikimic acid pathway	(b) Malonic acid pathway
	(c) Mevalonic acid pathway	(d) Methylerhtritol pathway
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	7 days	(b) 14 days	(a)	21 J		
F-4 TATE	. 1 1 0	(-)	(c)	21 days	(d) 30 days	5
71. Wh	iat molecular feature is	penicillin G is said o mimic	С			
(a)	Disaccharide of N-ace	tylmuranicanidN- actylguk	cosan	nine		
(b)	N-acetylneuraminic ac	cid				
(c)	The pentapeptide moi	iety of five glycine units				
(d)	The dipeptide moiety	D-ala-D-Ala				
72. If a	drug is known to be d	listributed into total body	wate	r, how many milligran	ns are needed	l to obtain an
init	tial plasma level of 5mg	/L in a patient weighting 7	70 kg			
(a)	210	(b) 150	(c)	50	(d) 35	
73. Wh	at does 'pharmacokine	tical compartment' mean				
(a)	Part of the body wate	er which is located is the va	ascul	ar system		
(b)	Total body water					
(c)	Plasma, intracellular f	luid, together , anatomical	wate	r compartments wher	e drug is abs	orbed
(d)	Part of the body wate	er in which the change of a	drug	g concentration has th	e same kinet	ics
74. The	e resistance to macrolic	de antibiotics by of gram p	ositi	ve organism is develop	ed due to	
(a)	Decreases uptake of a	antibiotics \		41		
(b)	Synthesis of esterase	enzyme that hydrolyzes la	cton	e ring of macrolide		
(c)	Methylation of 50S su	bunit at the antibiotic bind	ling :	site D		
(d)	Increased metabolism	n of antibiotic	N 1	EK		
75. The	e ethanolic solution cor	ntaminated with benzele sl	nowe	d absorbance of 0.69	at 260 nm in	a 2 cm cell if
the	molar absorptivity of	f benzene in thanolis 230) M ⁻¹	cm ⁻¹ , what is the cond	centration of	f benzene in
the	solution					
(a)	0.003 M	(b) 0.0015 M	(c)	0.001M	(d) 0.015M	I
76. The	e most effective agent f	for treating psychosis wou	ld be			
(a)	Buspirone		(b)	Sertaline		
(c)	Dextroamphetamine		(d)	Olanzapine		
77. TGA	A is regulatory body of	which country				
(a)	Europe	(b) Australia	(c)	Canada	(d) UK	
78. Wh	ich prostaglandins hav	ve a keto function at C-9	and a	a α- Hydroxyl group a	nt C-11 in pr	ostanoic acid
bac	ckbone					
(a)	PGA	(b) PGI	(c)	PGE	(d) PGF	
79. Wh	en morphine is heated	l at 140°C under pressure,	with	strong HCL, it conver	ts pnto:	
(a)	Morphinone		(b)	Apomorphine		
(c)	Codeine		(d)	Oxymorphine		
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80.	All of the following are gram-negative rods EXCEPT			
	(a) Clostridium (b) Escherichia	(c)	Salmanella	(d) Shigella
81.	The cells which secrets male sexhormone testosteron	ne ai	re:	
	(a) Crypts of lieberkuhn	(b)	Escherichia	
	(c) Salmonella	(d)	Shigella	
82.	If QA and QC are compared			
	(a) Both are literally the same			
	(b) QA is a higher activity in the management hiera	rchy		
	(c) QA is a higher activity in the management hierar	rchy		
	(d) QA is a done by the production person and QC is	s doi	ne by analyst	
83.	Bio availability of drug refers to			
	(P) The ratio of drug excreted unchanged in urine t	o th	at excreted as metabol	lites
	(Q) Fraction of the drug reaching the target to prod	uce 1	the action	
	(R) The length of time an administered drug is available.	able	for action	
	(S) Percentages of administered dose that reaches s	yste	mic circulation in the	unchanged form
	(a) Only P		Q and R	
	(c) R and S	(d)	Only S	
84.	Following intravenous administration, drugs are dist	ribu	ted fastest to	
	(a) The skin, kidney, and brain	(b)	The liver, kidney, and	brain
	(c) The liver, adipose, and brain	(d)	The liver, kidney, and	adipose
85.	Which of the following agents act as hypoglycemic as	s AT	P sensitive potassium	channel blocker
	(a) Mitiglinide	(b)	Pioglitazone	
	(c) Liraglutide	(d)	Sitagliptin	
86.	Carabilide shows stongs IR absorption in which of the	ne fo	llowing range in cm ⁻¹	
	(a) 3200-3600	(b)	1640-1690	
	(c) 1000-1300	(d)	2210-2260	
87.	Match the drugs with their adverse effects			
	(1) Cyclophosphamide	(P)	Pulmonary fibrosis	
	(2) Doxorubicin	(Q)	Nephrotoxicity, ototo	xicity
	(3) Bleomycin	(R)	Acute hemorrhage cy	rstitis
	(4) Cisplatin	(S)	Cardiotoxicity	
	(a) 1-S, 2-R, 3-P, 4-Q	(b)	1-P, 2-Q, 3-S, 4-R	
	(c) 1-P, 2-S, 3-Q, 4-R	(d)	1-R, 2-S, 3-P, 4-Q	
88.	Which one of the following technique is used to dete	rmii	ne glass transition tem	perature
	(a) X-ray diffractometry	(b)	Raman spectroscopy	
	(c) Differential scanning calorimetry	(d)	Atomic forced micros	scopy

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89.	Match the schedules with the particulars they des	cribe				
	(1) Schedule T	(P)	Standards for patent	or pr	opriet	ary medicines
	(2) Schedule U	(Q)	Requirements/ gu manufactures new I		es to	import &/or
	(3) Schedule V		GMP practices for A medicines	Ayurve	edic, s	iddha & Unani
	(4) Schedule Y		Particulars to be sh records	own i	n the	manufacturing
	(a) 1-R, 2-S, 3-Q, 4-P	(b)	1-S, 2-Q, 3-P, 4-R			
	(c) 1-R, 2-S, 3-P, 4-Q	(d)	1-S, 2-R, 3-P, 4-Q			
90.	Which of the following UV rays cause cancer					
	(a) UVA (b) UVB	(c)	UVC	(d)	All of	the above
91.	Which are the types of antibodies involved in hyp	persensi	tivity reactions			
	(a) LgG and LgD (b) LgG and LgM	(c)	LgD and LgA	(d)	LgM a	ınd LgD
92.	The term used to describe unequal distribution o	f colour	on a tablet is			
	(a) Chipping (b) Mottling	(c)	Lamination	(d)	Doub	e impress
93.	Why acetyl chloride undergoes nucleophilic subst	itution a	at a faster rate than i	nethy	aceta	te
	(a) The ester is more sterically hindered than th	e acid cl	nloride			
	(b) The chloride ion is a better leaving group that					
	(c) The acid chloride is more sterically hindered	than the	e ester			
	(d) The methoxide ion is a better leaving group t	han chlo	oride			
94.	The key concept of Total Quality Managements (T	QM) is				
	(a) Total control of all quality related activities					
	(b) Commitment of all employees to quality imp	rovemer	nt and having team n	neetin	gs	
	(c) Top management's direct involvement					
	(d) The Introduction of the ISO 9000 Series					
95.	A drug of low water solubility when given orally is	absorbe	ed up to 90% of the a	dmini	stered	does. The drug
	belongs to which class according to BCS classifica	tion				
	(a) Class IV (b) Class III	(c)	Class II	(d)	Class	I
96.	Which of the following is NOTa component of eva	aporator	•			
	(a) Heat exchange (b) Vacuum separator	r (c)	Condenser	(d)	Cyclo	ne separator
97.	In parkinson's disease, there is a predominant lo	ss of dop	paminergic neurons			
	(a) Substantia (b) Cerebellar	(c)	Cerebral cortext	(d)	Locus	ceruleus
98.	At equilibrium the receptor occupancy is related	to drug	concentration by			
	(a) Henderson-Hasselbach equation	(b)	Hill- Langmuir equa	tion		
	(c) Lineweaver-Burk equation	(d)	Langmuir adsorption	n isotł	nerm	
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99.	Whi	ich method is not suita	ble to calculate area under	the	curve		
	(a)	Least square method		(b)	Weighing and platome	tery	
	(c)	Trapezoid rule		(d)	Integration of curve		
100.	ORC	OS is a technology deve	eloped for/as				
	(a)	Oral release rapid ons	set system	(b)	Orally rapid disintegra	ating	g tablets
	(c)	Osmotic controlled or	al drug delivery system	(d)	Transdermal drug del	ivery	y system
101.	Mat	ch the events in tablet	manufacturing process wit	h th	e effects found in table:	S	
	(1)	Rapid drying of coate	d tablets after coaching	(P)	Increased distegration	n tin	ne
	(2)	Use to highly viscous	solution	(Q)	Weight variation		
	(3)	Improper feed rate for	orm hopper	(R)	Orange peel		
	(4)	Excessive compression	on force	(S)	Blistering		
	(a)	1-R, 2-S, 3-Q, 4-P		(b)	1-R, 2-S, 3-P, 4-Q		
	(c)	1-S, 2-R, 3-Q, 4-P		(d)	1-R, 2-P, 3-S, 4-Q		
102.	At p	oH 5, the ratio of the p	rotonated to unprotanated	l fori	ms of morphine pKa 7	wou	ıld be
	. ,	1:100	(b) 1:10	. ,	10:1	(d)	100:1
103.			if the acyl side chain of per				
	(a)	Penicellienic acids		(b)	Penillic acids		
	. ,	7-Aminopenicillanic ac	AL DISCI	1.5	6-Aminopenicillanic a		
104.			conducted with 1500 volu	nteei	s which may spans or	ı per	riod of 2 years as per
	•	tocol. The clinical trial	•		_		
	. ,	Phase 1	(b) Phase 2		Phase 3	` '	Phase 4
105.		_	ig has not undergone a clir				-
	. ,	Dideoxyinosine	(b) Zidovudine	(c)	Acetazolamide	(d)	Nicotine
106.		*	which type of rheology				
		Newtonian	(b) Pesudoplastic	• •	Non- Newtonian	(d)	Dilatant
107.			gen species is most danger			<i>c</i> 12	
4.00	. ,	Singlet oxygen	(b) Hydroxyl radical	(c)	Superoxide	(d)	Peroxide
108.		Gibb's Phase rule					
	. ,	,	is with more than compon				
			um of three phase can exit		•	m	
	(c)	-	compositions as intensive				
4.00		-	ure and temperature as in				
109.			ochlea arrive first in which	_			
		Auditory cortex		• •	Thalamus		
	(c)	Medulla oblongata		(d)	Inferior colliculus		



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110.	The produc	t of a Michael 1	reaction of a ketone enola	te to a	na, b-unsaturated keto	ne is	And addition		
	reaction occurs in a/an								
	(a) 1,5- de	eketone; 1,4-fas	shion	(b)	α -substituted acetate	e; 1,2	fashion		
	(c) β - hyo	dorxy keto; 1,3	- fashion	(d)	α , β - keto ester; 1,5	-fash	nion		
111.	Which of tl	ne following is	a drug considered as pot	assium	sparing diuretic				
	(a) Trimat	rine	(b) Chlorthiazide	(c)	Mannitol	(d)	Furosemide		
112.	Which of tl	he reagent from	m the given can be used t	o prot	ect ketone group				
	(a) Acidic	methanol	(b) Basic methanol	(c)	Methanol + KCN	(d)	Phenobarbitone		
113.	Which of th	ne following dr	rugs causes less inhibition	or RE	M sleep				
	(a) Zolpido	em	(b) Ethanol	(c)	Lorazepam	(d)	Phenobarbitone		
114.	The startin	g materials for	synthesis of sulfamethor	kazole	are				
	(a) 4- Ami	inobenzene-1-	sulfonyl amide + 3-chloro	-5-met	thyl isoxazole				
	(b) 4- Ami	inobenzene-1-s	sulfonyl amide + 3-amino	-5-met	thyl isoxazole				
	(c) 4- Ami	inobenzene-1-s	sulfonyl amide + 3-amino	-5-met	thyl isoxazole				
	(d) 4- Ami	inobenzene-1-	sulfonyl amide + 5-chloro	-5-met	thyl isoxazole				
115.	Match the f	following plant	product with their chemi	cal cla	SS				
	(1) b-amy	rin		(P)	Alkaloid secondary a	lcoho	l		
	(2) Sqaule	ne	DISC	(Q)	Alkaloid, phenol				
	(3) Morph	iine	CE	(R)	Triterpene, secondar	y alco	ohol		
	(4) Ephed	rine		(S)	Asyclic triterpene, po	olyene	e		
	(a) 1-R, 2-	S, 3-Q, 4-P		(b)	1-S, 2-Q, 3-P, 4-R				
	(c) 1-P, 2-S	S, 3-Q, 4-R		(d)	1-R, 2-S, 3-P, 4-Q				
116.	All of the fo	ollowing excep	t one are subject to thera	peutio	drug monitoring, Wh	ich o	ne		
	(a) Pheny	toin		(b)	Lithium				
	(c) Gentan	nicin		(d)	Losartan				
117.	Thiamine of	leficiency caus	es decreased energy prod	luctior	n because				
	(a) It is re	quired for the	process of transamination	n					
	(b) It is a	co-factor in oxi	idative reduction						
	(c) It is a	co-enzyme for	transketolase is pentose	phosp	hate pathway				
	(d) It is a	co-enzyme for	pyruvate dehydrogenase	& alp	ha ketoglutarate dehyd	droge	nase		
118.	Which of th	e following dru	igs are often found in both	presci	ription and over-the-co	ounte	r nasal decongestands		
	(a) Alpha	2 agonists		(b)	Alpha 1 agonists				
	(c) Alpha	1 antagonists		(d)	Beta 2 agonists				
119.	What is the	e surface tension	on of water of at 25°C						
	(a) 58 dyr	•			68 dyne/cm				
	(c) 72 dyr	1e/cm		(d)	82 dyne/cm				



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120.	Acri	dine and xanthene rin	gs are related to	each other in	that						
	(a)	Xanthene is oxygen is	oster of acridine	(b)	Acridine is ox	ygen isoster	of xanthene				
	(c)	Xanthene is nitrogen	isoster of aciridin	ie (d)	Xanthene is s	ulfur isoster	os acridine				
121.	Coll	igative properties dep	end on								
	(a)	a) Structural arrangement of atoms within the molecules of solute and solvent									
	(b)	o) The number of solute particles is solution									
	(c)										
	(d)	(d) Sum of the corresponding properties of individual atoms or functional group within the molecules									
122.	In p	olarography	current must be	blocked							
	(a)	Residual	(b) Migration	(c)	Diffusion	(d)	None				
123.	The	propellant commonly	used in topical ac	erosols is							
	(a)	Trichloromonfluorom	ethane	(b)	b) Trifluromonfluroethane						
	(c)	Dichlordifluromthane		(d)	Isopropyl alco	ohol					
124.	Whi	ch of the following inc	rease systolic and	d diastolic pre	ssure in norm	al patient					
	(a)	Epineherine	_	(b)	Norepinephri	ine					
	(c)	Tyramine		(d)	Phenylephrin	e					
125.	A la	rge Reynold number is	indication of wh	ich type of flo	w						
	(a)	Smooth and stream li	ne flow	(b)	Laminar flow						
	(c)	Steady flow		$C E N^{(d)}$	Highly turbule	ent flow					

End of paper



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ANSWER KEY GPAT 2016

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



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