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Booklet Series

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Register	
Number	·

2009

PHARMACY / PHARMACEUTICAL SCIENCES

Time Allowed: 3 Hours]

[Maximum Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- 1. This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open it at the commencement of the examination. As soon as the signal is received you should tear the right side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
- 2. This Question Booklet contains 200 questions.
- Answer all questions. 3.
- 4. All questions carry equal marks.
- 5. The Test Booklet is printed in four series e.g. A B C or D (See Top left side of this page). The candidate has to indicate in the space provided in the Answer Sheet the series of the booklet. For example, if the candidate gets | A | series booklet, he/she has to indicate in the side 2 of the Answer Sheet with Blue or Black Ink Ball point pen as follows:

[B] [C] [D]

- 6. You must write your Register Number in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- 7. An Answer Sheet will be supplied to you separately by the Invigilator to mark the answers. You must write your Name, Register No. and other particulars on side 1 of the Answer Sheet provided, failing which your Answer Sheet will not be evaluated.
- 8. You will also encode your Register Number, Subject Code etc., with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, your Answer Sheet will not be evaluated.
- 9. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- In the Answer Sheet there are four brackets [A] [B] [C] and [D] against each question. To answer the questions you are to mark with Ball point pen ONLY ONE bracket of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

[A] [C] [D]

- You should not remove or tear off any sheet from this Question Booklet. You are not allowed to take this Question Booklet and the Answer Sheet out of the Examination Hall during the examination. After the examination is concluded, you must hand over your Answer Sheet to the Invigilator. You are allowed to take the Question Booklet with you only after the Examination is
- 12. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
- Do not tick-mark or mark the answers in the Question Booklet.

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1.	Wh	ch of the following trademarked so	ustai	ned release systems are based on
	enc	psulated drug particles that will dis	solve	at various rates?
		I. Sequels		
		II. Spansules		
		III. Extentabs.		
	Of t	nese		
	A)	I only	B)	III only
	C)	I and II	D)	I, II and III.
2.		partmental models are often used rmacokinetics. A compartment is be		A •
	A)	any anatomic entity that is capable	of ab	osorbing drug
,	B)	a kinetically distinguishable pool of	drug	
	·C)	specific body organs in tissues tha	t can	be assayed for drug
	D)	any body fluid such as blood in uri	ne th	at may contain drug.
3.	Din	ethyl sulphoxide is commonly used	as a	n excipient in transdermal patches
	as			
	A)	adhesive		
	B)	permeation enhancer of lipophilic d	lrugs	
	C)	permeation enhancer of hydrophilic	dru;	gs
	D)	release liner.		•
4.	wei	l conditions for effective transderma tht of and pH of ne drug.		
	A)	< 500 Da, 1 – 5	B)	> 500 Da, 1 - 5
	C)	< 500 Da, 5 – 9	D)	> 500 Da, 5 - 9.
5.		of the following drugs are believed transformation, except	to un	dergo significant first-pass hepatic
!	A)	phenytoin	B)	lidocaine
	C)	morphine	D)	nitroglycerine.

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HIPS 6. Agglomeration in aerosols can be reduced by including A) anionic surfactants with HLB greater than 10 Bl cationic surfactants with HLB less than 10 C) non-ionic surfactants with HLB greater than 10 D) non-ionic surfactants with HLB less than 10. 7. In a suspension, open network aggregate or floccule tends to A) settle quickly and cannot be easily redispersed B) settle slowly and can be easily redispersed C) settle quickly and can be easily redispersed D) settle slowly and cannot be easily redispersed. 8. The particle size range of nano-particles is A) 1 nm — 1000 nm $1 \text{ nm} - 1 \text{ } \mu\text{m}$ B) D) C) lnm — 100 nm $0.5 \, \mu m - 1 \, nm$ 9. Transdermal drug delivery systems contain drugs meant for A local action B) systemic action C) both (A) and (B) D) none of these. 10. Which one of the following per oral dosage forms is likely to exhibit the longest lag time? A) Delayed release tablet B) Elixir C) Enteric coated tablet D) Sustained release capsule. 11. The equation that describes the process of 'Passive Transport' is A) Noyes-Whitney equation B) Stokes law C) Fick's law D) Hofmeister rule. 12. The gelatin used in the manufacture of capsules is obtained from collagenous material by A) hydrolysis B) . decarboxylation acetylation C) D) conjugation. x 901 09

10.	. Opalux is				
i	A)	colour concentrate for fluidized	bed coa	ting	
•	B)	colour concentrate for film coat	ing		
	C)	complete colour concentrate for	enteric	coating	
	D)	colour concentrate for sugar co	ating.		
14.	Cre	ams are			
	A)	emulsions	B)	gels	
	C)	jellies	D)	magmas.	
15.	Dis	solution tests for tablets are done	to meas	sure indirectly	
	A)	hardness	B)	bioavailability	
	C)	solubility	D)	friability.	
16.	Tric	hloromonofluoromethane is num	erically d	lesignated as	
	A)	12	B)	11	
e e	C)	114	D)	22.	
17.	Seal	ling in sugar coating is done			
	À)	to release drug in the intestine			
	B)	to sustain release of the drug			
	C)	to round the edges of tablet cor	е		
	D)	to prevent moisture penetration	into tab	let core.	
18 is used to remove the Pyrogen for injection.			en during the preparation of water		
	A)	Membrane filter	B)	Condenser	
	C)	Still head	D)	Filter head.	
19.	The	type of official eye ointment base	e is		
	A)	hydrocarbon	B)	absorption	
	C)	water miscible	D)	water soluble.	
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21. Which of the following is not a super-disintegrant?

A) Microcrystalline cellulose

B) Sodium starch glycolate

C) Croscarmelose

D) Crosporidone.

22. Terminally sterilized products are

A) those that are sensitive to heat and gamma irradiation

B) those that can be sterilized after filling and sealing

C) those products that can be autoclaved

D) usually suspensions or powders.

23. Slugging is also called as

A) dry granulation

B) wet granulation

C) bulk production

D) direct compression.

24. Pinocytosis is known as

A) vesicular transport

B) engulfment of small solutes

C) engulfment of larger particles

D) absorption phenomena.

25. List of the substances that are required to be used only under medical supervision and which are labelled accordingly is / are

A) R

B) G

C) • P

D) C and C_1 .

26. Establishment(s) which has/have a qualified person engaged in compounding of drug is / are

A) Drug store

B) Chemists and druggists

C) Pharmacy

D) none of these.

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B)

D)

Blue room

White room.

Turn over

A) - Black room

Grey room

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34.	As p	per GMP, during tablet compression	n, in-	process control should be done at
	regu	llar intervals of		·
	A)	not more than 45 minutes	B)	not more than one hour
•	C)	not more than 30 minutes	D)	every one hour.
35.	Dru	g (Price Control) Order came into i	orce i	n the year
	A)	1979	B)	1955
	C)	1960	D)	1987.
36.	Equ	ipment recommended for the manu	factur	e of powders come under
	A)	Schedule H	B)	Schedule M
	C)	Schedule N	D)	Schedule X.
37.	Mag	gic remedies include		
-	A)	Talismans	B)	Mantras
	C)	Kavachas	D)	all of these.
38.	Spu	irious drugs mean		•
	A)	imitations	B)	substitutes
	C)	resembling other drugs	D)	all of these.
39.	GM	P for Ayurvedic, Siddha and Unani	medic	ines are covered by
	A)	Schedule U	B)	Schedule T
	C)	Schedule W	D)	Schedule M.
4 0.	Pro	toplasmic plant tissue culture meth	od was	s introduced in 1960 by
	A)	Cocking	B)	Skoog & Miller
	C)	Gamborg and Neabors	D)	Carlson.

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47.

A)

C)

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B)

D)

insect cells

both (B) and (C).

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bacterial cells

mammalian cells

Bioreactor is the instrument used for growing

HIPS		10		•
48.		nsfer of genetic material from one beeriophage is called	acter	ium to another bacterium through
	A)	Transduction	B)	Conjugation
	C) -	Transformation	D)	all of these.
49.	Mac	roglobulin is		
	A) .	lg M	B)	Ig A
	C)	Ig D	D)	Ig E.
50.	Schi	ick test is performed for testing the	indivi	dual for the presence of
	A)	Polio	B)	Pneumonia
	C)	Diphtheria	D)	Tuberculosis.
51.	The	target site on DNA for Bam HI endo	nucle	ase is
	A)	G ↓ GATCC	B)	G ↓ AATTC
	C)	GG ↓ CC	D)	A ↓ AGCTT.
52 .	Qua	lity control of vaccines is carried ou	t by	studies.
	A)	in vivo	B)	in vitro
	C)	in vivo and in vitro	D)	neither in vivo nor in vitro.
53 .	Who	ooping cough vaccine employs killed	cell o	f
	A)	Bordetella pertussis	B)	Pseudomonas aeruginosa
	C)	Vibrio cholerae	D)	Salmonella typhti.
54.	Whi	ch one of the following is the suitab	le site	e of self-injection of interferons?
	A)	Subcutaneous	B)	Abdomen
,	C)	Legs	D)	Finger.
55.	A si	gnificant number of antibodies now	in use	e belongs to Immunoglobulin,
	A)	Ig G	B)	Ig H
	C)	Ig M	D)	Ig I.
 -			_	

56.	Hig	h concentration of several proteins	is obta	ained from serum.
	A)	monkey	B)	horse
•	C)	rabbit	D)	rat.
57 .		ich drug is used to prevent embourction?	lism i	n the lung and during myocardial
	A)	Granulocyte-macrophage colony-s	imula	ting factor (GM-CSF)
•	B)	Alteplase	•	
	C)	EPOGEN (EPO)		
	D)	Human growth hormone.		
58.	Wh	ich enzyme is used by the HIV to fo	rm DN	iA in the host cell ?
	A) .	Restrictive endonuclease	B)	DNA-directed polymerase
	C)	Reverse transcriptase	D)	Both (A) and (B).
59.	Wh	ich type of cell does not contain dou	ıble-st	randed deoxyribonucleic acid?
	A)	Human cells	AC	
	B)	Bacteria cells	17	
	C)	Human immunodeficiency virus (HľV) (cells
	D)	Fungal cells.		
60.	Dex	ktrans are used as blood-plasma vol	ume e	xtenders because
	A)	they are heat sterilized	B)	they do not carry virus
	C)	both (A) and (B)	D)	none of these.
61.	The	e organism used for the production	of Dex	tran is
	A)	Leuconostoc mesenteroids	B)	Lactobacillus bulgarium
	C)	Clostridium botulinum	D)	Granulobacter botulinum.
62.	Med	chanism of citric acid fermentation	is conf	irmed by
	A)	theory of Emde	B)	Krebs' cycle
	C)	theory of Ciusa and Bruil	D)	Bernhauer's theory.
	-	00		1 Thomas areas

63.	The first pharmaceutical product to be produced by mammalian cell culture is				
•	A)	tPA	B)	tRNA	
	C)	tDNA	D)	tG _H .	
64.		a is the country atitis-B vaccine.	in the	e world to develop an indigenous	
	A)	2nd	B)	3rd	
	C)	4th	D)	5th.	
65.	Exti	nction E =			
	A)	$\log \frac{I_0}{I_1}$	B)	log T	
	C)	I_1 / I_0	D)	I ₀ 10 ^{-Ct} .	
66.	The	stationary phase in Thin-Layer Chr	omato	graphy (TLC) is	
	.A)	adsorbent	57		
	B)	liquid held between glass plate and	d adso	rbent	
	C)	glass plate			
	D)	none of these.			
67 <i>:</i>	The	wave number is defined as			
•	A)	number of waves per unit of lengt	h		
	B)	number of waves per unit of metro	e .	•	
	C)	number of waves per cm			
	D)	number of waves per unit of width	1.		
68.	The	quality assurance personnel respon	nsibilit	ies does not include	
	A) ·	maintaining copies of approved stu	ıdy pla	ans	
	B)	preparation of SOP			
	C)	inspection of final reports to confi	rm me	thods and procedures	
	D)	issue of product development plan	1.		
x 90)1	08			

69.	The	constituents of Karl Fischer reagent are	
	A)	SO $_3$, solution of iodine, anhydrous pyridine, ethanol	
	B)	SO_2 , solution of iodine, anhydrous pyridine, acetone	
	C)	SO $_{3}$, solution of iodine, anhydrous pyridine, anhydrous methan	nol
٠	D) ,	${\rm SO}_2$, solution of iodine, anhydrous pyridine, anhydrous metha	nol.
70 .		electron capture detector, may be used as a car	rier gas for
	A) .	Nitrogen B) Argon	
. :	C)	Hydrogen D) Carbon dioxide.	
71.	Whi	ch of the following statements about ISO is incorrect?	
:	A)	ISO certifies organisations which apply for ISO 9001 compliance	E.
	B) .	ISO 9000 is not a prescriptive standard for quality.	
	C)	ISO 9000 is a process oriented rather than result oriented stand	dard.
	D)	ISO 9000 does not provide industry specific performance requir	ements.
72 .		composition of the Barium sulphate reagent used in the line	nit test for
٠	A)	Barium sulphate, Sulphate free alcohol and Ferrous sulphate	
	B)	Barium chloride, alcohol and Potassium chloride	
	C)	Barium sulphate, alcohol and Potassium chloride	
i	D)	Barium chloride, Sulphate free alcohol and Potassium sulphate.	
73.	Katl	narometers & Bolometers are different types of	
	A)	pumps B) detectors	
	Ć)	monochromators D) recorders.	
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74. In IR spectroscopy which region provi

74.		R spectroscopy which region providation?	des in	formation for molecular structure
	A)	Near IR	B)	Far IR
	C)	Middle IR	D)	Very near IR.
75.	In H	PLC which detector is based upon	bulk p	property of elute ?
	A)	Refractive index detectors	B)	Diode array detectors
	C)	Fluorescence detectors	D)	PMT.
76.	Exa	mple for Emission Spectroscopy is		
	A)	Atomic Absorption Spectroscopy	B)	Flame Photometry
	C)	Fluorimetry	D)	all of these.
77.	In N	MR spectroscopy, the chemical shi	ft is ex	pressed in
	A)	gauss	B)	parts per million
	C)	tesla	D)	hertz.
78.	In m	nass spectroscopy for chemical ioni	zation	which reactant gas is most widely
	A)	Argon	B)	Neon
	C)	Methane	D)	Oxygen.
79.		the determination of selenium beased by using the reagent, 2, 3-diaminonaphthalene 3, 3-diaminobenzidine Cyanogen chloride	y Flu	orimetry, the sensitivity can be
	D)	75% v/v sulphuric acid in ethanol	l .	
80.		R spectra, the absorption at 3300 sence of) cm -	1 and at 1020 cm ⁻¹ indicates the
	A)	NH group	B)	Amide - C = O
	C)	Aliphatic C – H	D)	Hydroxyl group.
x 90)1	OS	<u> </u>	

ĎΙ'	As p	er the GLP, full calibration of spe	cuopno	tometers should be done
	A)	once a day	B)	once a month
•	C)	every quarter	D)	half-yearly.
82.	The	closeness of the results obtained	by the	procedure to the true value is
·:	A) (linearity	B)	precision
i	C)	accuracy	D)	sensitivity.
83.	Whi	ch of the following contains a chro	omopho	re ?
:	A)	Ethylene	B)	Ethane
) <u>.</u>	C)	Both (A) and (B)	D)	None of these.
84.	The	presence of which of the followin	g group	s increases fluorescence intensity?
¥ P	A)	Amino group	B)	Nitro group
	C)	Both (A) and (B)	D)	None of these.
85.	The	purple colour formed in the limit	test for	iron is due to
	A)	Ferric thioglycolate	B)	Ferrous thioglycolate
ı	C)	Ferrous glycolate	D)	Ferric glycolate.
86.	R_f	value ranges from		
	A)	0 to 1	B)	0 to 2
	C)	2 to -2	D)	+ 1 to - 1.
87.	In t	he limit test for arsenic the granul	ated zir	ac and HCl help to
	A)	increase the sensitivity of the tes	st	
	B)	produce stable colour		
, If	C)	provide an acid medium		
i j	D)	reduce the arsenic or arsenious	acid to	arsine.
88.	In t	he limit test for sulphates, the alc	ohol in	the Barium sulphate reagent helps
• •	to.			
•	A)	increase the solubility	B)	prevent ppt of impurities
	C)	clarify the solution	D) ⁻	prevent super-saturation.
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¹ 89.		volume of carrier gas required to o	elute (one half of the compound from the
	A)	Retention time	B)	R_f value
	C)	R _X value	D)	Retention volume.
90.	In I	R spectrum, the functional group re	gion i	s .
	A)	4000 cm ⁻¹ to 900 cm ⁻¹	B)	4000 cm ⁻¹ to 1400 cm ⁻¹
	C)	1400 cm ⁻¹ to 900 cm ⁻¹	D)	4000 cm ⁻¹ to 660 cm ⁻¹ .
91.		sample is withdrawn or seized from led. The payment of fair price of the		
•	A)	is made to the drug store owner		
	· B)	is not made		2
•	C)	is made to the drug store owner with a receipt	and ir	n case of refusal a Form is filled up
	D)	the drug store owner must be ins	isted 1	to give it free of cost.
92.		ugs Technical Advisory Board (Di ereas DTAB-Ayurvedic, Siddha and		
	A)-	18 members	B)	20 members
	C)	15 members	D)	none of these.
93.		e list of disease for which advertise isultation with	ment	banned or prohibited is finalised in
,	A)	Drugs Technical Advisory Board		
	B)	Drugs Testing Laboratory	**	
	C)	Central Drugs Laboratory	•	
	D)	None of these.		
94.	Wh	ich one of the following is not the w	ring of	Drugs and Cosmetics Act ?
	A)	Advisory wing	B)	Analytical wing
	C)	Administrative wing	D)	Education and Pharmacy wing.
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95.					
Į.		acco powder, lime and molasses a vision of D & C Act it is	llong v	vith red mineral matter. Within the	
	A)	cosmetic	B)	food	
	C)	drug	D)	none of these.	
96.	Sch	nedule M incorporating GMP (Good	Manu	facturing Practices) was introduced	
, ;	in	t e e e e e e e e e e e e e e e e e e e	-		
	A)	1987	B)	1988	
1 F	C)	1989	D)	1990.	
97.	In t	he Drugs (Price Control) Order, 1	995 th	ne first schedule consists of	
ŀ	A)	list of books	B)	list of bulk drugs	
†	C)	list of formulations	D)	none of these.	
98.	The	First Schedule of Drugs and Cosn	netics A	Act, 1940 comprises	
	A)	the list of books of references for	Ayurve	edic, Siddha and Unani medicines	
. •	B)	list of Pharmacy books			
	C)	list of Homeopathic books			
•	D)	none of these.			
99.	Bate	ch Processing Records (BPR) shou	ld con	tain the following details, except	
	A)	Analytical control number			
	B)	Raw material manufacturers' deta	ıl		
	C)	Batch number			
	D)	Date of commencement of operati	on.	•	
100.	The	Head Office of Drugs Technical Ad	lvisory	Board is at	
	A)	New Delhi	B)	Kolkata	
	C)	Mumbai	D)	Chennai.	
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101.	The	antia	rrhythm	iic dru	g quinidine	is		
	A)	{ + }	stereois	omer	of quinine		·	
•	B)	(-):	stereols	omer (of quinine			
	C)	(+):	racemic	mixti	ire of quinin	ıe .		
	D)	none	of the	se.				•
102.	The	IUPA	C nome	nclatu	re of Piroxic	am is		
	A)		l, 2-bei dioxide		azine-3-cari	boxami	de,	4 hydroxy 2-methyl-N-pyridinyl-,
	B)	2-na	phthale	ne ace	etic acid, (+) 6 met	hoxy	y-α-methyl
	C)	Benz	ene ace	etic aci	d (±) α-me	thyl-4-(2-m	ethyl propyl)
	D)	Benz	zoic acid	1, 2-[(2, 6-dichlor	o-3- me	thy p	ohenyl) amino]
103.	Praz	epam	differs	in str	ucture from	Diazep	oam i	by
	A)	N-m	ethyl gr	oup		Į	3)	N-propyl group
-	C)	N-cy	clo proj	pyl me	thyl group	I)	N-cyclo propyl group.
104.				-				w have the following side chains at them correctly:
		a)	Chlorp	romaz	ine		1.	3-[4 methyl piperazine1-yl] propyl
		b)	Prochl	orpera	zine	:	2.	2-(1 methyl piperide 2-yl) ethyl
.v		c)	Thioric	lazine		;	3.	3-[4- (2 hydroxy ethyl)
			XX	· ·				piperazine 1-V] propyl
ē		d)	Perphe	nazin	е	,	4.	Dimethyl aminopropyl.
	Cod	les :		·				
		a	b	· C	đ			
	A)	4	,1	2	3			
κ,	B)	1	2	1	3			
τ	C	2	3	1 -	ġ			

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D)

105.	From the given pairs of diuretics in which pair both the drugs do not require the presence of aldosterone to produce diuresis?			
	. A)	Mannitol and Spiranolactone		
	B)	Spiranolactone and Triamterene		
•	C)	Triamterene and Amiloride		
	D)	Spiranolactone and Amiloride.		
106.	The	diuretic that is natriuretic, chlorure	tic, sa	luretic and antikaliuretic, is
	A) :	Spiranolactone .	B)	Furosemide
	C)	Ethacrynic acid	D)	Acetazolamide.
107.		he given pairs of antihistamines, t histamines is	he pa	ir in which both are, 'dual-acting'
	À)	Cetirizine and Cromolyn sodium	•	000
:	B)	Azelastine and Cetirizine		3 y
•	C)	Azelastine and Ketotifen		
	D)	Ketotifen and Cromolyn sodium.	y	
108.	Diaz	zoxide and Minoxidil can be describe	d as	
	A)	Potassium channel openers	B)	Potassium sparing diuretics
-	C)	Calcium channel blockers	D)	Sodium channel openers.
109.		he lidocaine series of local anaesthe in up to three carbon units,		
·	A)	increases	B)	abolishes
	C)	reduces	D)	does not alter.
110.	Whie easil	ch of the following anti-histamines ly ?	does	not cross the blood brain barrier
•	A)	Diphenhydramine	B)	Cyclizine hydrochloride
	C)	Chlorpheniramine maleate	D)	Cetirizine.
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111. The fluorine in Flurazepam is	present	in
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A) 5' position

B) 3^{T} position

C) 2^{\prime} position

- D) 4^{\prime} position.
- 112. Ranitidine contains heterocyclic ring.
 - A) Imidazole

B) Furan

C) Thiazole

- D) Pyridine.
- 113. Aspirin can be estimated by
 - A) non-aqueous titration
- B) complexometry

C) acid-base titration

- D) dead-stop end point method.
- 114. Which of the following is anti-cholinergic drug?
 - A) Carbachol

B) Phenyl ephrine

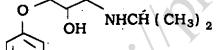
C) Eucatropine

- D) Procainamide.
- 115. Clonidine is used in the treatment of the following disorders, except
 - A) glaucoma

B) hypertension

C) arrhythmia

D) opiate withdrawal syndrome.



116.

is the structure of

CH 2 CONH 2

A) Atenolol

B) Metoprolol

C) Acebutolol

- D) Timolol.
- 117. A central carbon atom not directly connected to any H 2 and is connected to a tertiary nitrogen through a 2 carbon unit on the other side with relatively small groups on the nitrogen is the pharmacophore of
 - A) H₁ receptor antagonists
- B) Narcotic analgesics

C) Thiazide diuretics

D) Butyrophenone antipsychotrics.

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118.	Hon	natropine is a semisynthetic obt	ained or s	synthesised by reacting	
٠.	A)	Tropine and Succinic acid	B)	Tropine and Malic acid	
	C)	Tropine and Fumaric acid	D)	Tropine and Mandelic acid.	
119.	The	2 '-chloro substituted analogue	of oxazer	oam is	
	A)	Lorazepam	B)	Diazeparn	
	C)	Temazepam	D)	Prazepam.	
120.	Ana	lgesic with N-Aryl anthranillic ac	id nucleu	s is	
	A)	Paracetamol	B)	Meclofenamic acid	
•	C)	Phenyl butazone	D)	Anti-pyrine.	
121.	Cho	linergic receptor antagonist exist	ing as en	antiomer is	
	A)	Methacholine	B)	Carbachol	
	C)	Acetyl choline	D)	Bethanechol.	
122.	Trip	elennamine is used as its			
	A)	Succinate	B)	Maleate	
	C)	Adipate	D)	Citrate.	
123.	Whi	ch one of the following is not a n	on-barbit	urate?	
	A)	Paraldehyde	B)	Carbromal	
	C)	Nitrazepam	D)	Thiopental Sodium.	
124.	Cycl	omethycaine sulphate is used in	<u> </u>		
	A)	anaesthetic in chemical burns			
	B)	skin abrasions			
	C)	dermatological lesions			
	D)	all of these.			
125.	Rese	erpine is contraindicated in patie	ents with	a history of	
	A)	Epilepsy	· B)	Hypertension	
	C)	Mental depression	D)	Schizophrenia.	
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126.	Digit	italis overdose can be reversed by the administration of					
	A)	Phenytoin		•			
	B)	Calcium					
	C)	Fab fragments of Digoxin antibody					
	D)	Sodium.					
127.	Dru	gs causing allergic reactions generally act as					
	A)	Antigen	B)	Haptens			
	C)	Antibodies	D)	Mediators.			
128.	A po	tent tranquilizer which also exhibits	stron	g hypotensive effect is			
	A)	Chlordiazepoxide	B)	Meprobamate			
	C)	Reserpine	D)	Thorazine.			
129.	Salid	cylates are metabolised through	3				
	A)	hydroxylation	B)	oxidation			
	Ć)	conjugation with glucuronic acid	D)	reduction.			
130.	Sod	ium valproate acts by					
	A)	blocking the metabolism of GABA		• •			
	B)	blocking the GABA receptor					
	C)	blocking the conduction of impulses					
	D)	blocking the release of GABA.					
131.	Atorvastatin should be taken at night after dinner because						
	A)	it induces sleep		•			
	B)	synthesis of cholesterol is maximum	n dur	ing night			
	C)	the patient would be affected by su	ınligh	t if taken during daytime			
	D)	of better absorption.					

132.	Thiocyanate accumulation and the consequent toxicity is a possibility when				
	exce	ss dose of is admini	stered	•	
ł.	A)	Minoxidil	B) '	Hydralazine '	
	C)	Sodium nitroprusside	D)	Clonidine.	
133.	The	specific antidote for Paracetamol po	isonin	ng is	
	A)	4-Methyl Pyrrazole	B)	N-Acetyl cysteine	
	C)	Folinic acid	D)	Sodium thiosulphate.	
134.	Digi	talis produces bradycardia by the fo	llowin	ng mechanisms, except	
	A)	reflexly through no dose ganglion			
	B)	direct stimulation of vagal centre			
	C)	sensitization of SA Node to acetylch	oline	000	
	D)	sensitization of SA Node to adrenal	ine.		
135.	Pilo	carpine can be used in			
Andrew Company to the second	A)	Asthma	B)	Coronary insufficiency	
ne oftensylvino	C)	Glaucoma	D)	Hyperthyroidism.	
136.	Fluc	exetine is a / an			
	A)	5-HT partial agonist			
	B)	anti-histaminic			
THE PROPERTY OF THE PROPERTY O	C).	inhibitor of 5-HT uptake	•		
C Transport	D)	specific 5-HT 3 receptor antagonist	•	•	
137.	Tole	rance refers to genetically determin	ed ser	nsitivity to a drug called as	
	A)	innate tolerance	ŧ		
THE STATE OF THE S	B)	learned tolerance			
	C)	acute tolerance			
f	D)	dispositional tolerance.			
<u>.</u>		00	ר	·	

138.	Whic	ch one of the following is correct	ly matche	ed ?
	A)	α-adrenergic antagonist	- .	Lisinopril
	B)	β-adrenergic antagonist	.—	Propranolol
	C)	Arterial vasodilators	_	Clonidine
	D)	Calcium channel blocker	_	Diazoxide.
139.		movement of drug from a regio drug concentration is referred a		drug concentration to a region of
	A)	facilitated diffusion	B)	pore transport
	C)	active transport	D)	vesicular transport.
140.	The	biotransformation reaction invol	ved in me	tabolism of methyl dopa is
	A)	Acetylation	B)	Sulphation
-	C)	N-oxidation	D)	S-oxidation.
141.		asthma/COPD patients, which ded?	type of	antihypertensive drug should be
	A)	β-adrenergic blockers	B)	Diuretics
	C)	Calcium channel blockers	D)	ACE inhibitors.
142.	Dru	gs having hydroxyl or carboxylic	acid grou	p can easily conjugate with
	A)	sulphate	B)	glycine
	C)	acetyl coenzyme-A	,D)	glucuronic acid.
143.	Cole	estipol is a/an	lrug.	
	A)	HMG CoA reductase inhibitor	B)	activate PPAR-α receptors
	C)	Bile acid birding agent	D)	heavy metal binding agent.
144.	Rate	e limiting step in the biosynthesi	s of catec	holamines is
	A)	formation of dopamine	B)	formation of dopa
	C)	transport of tyrosine	D)	formation of noradrenaline.
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145.	ACE	inhibitors can cause	terat	togenicity.
	A)	Phocomelia	B)	Hyperplasia
	C)	Phytomelia	D)	Hypoplasia.
146.	Anti	dote for benzodiazepine overdos	age is	
	A)	Flumazenil	B)	Flupenthixol
	C)	Fluphenazine	D)	Fluoxentine.
147.		ch of the NSAIDS would be of poulty in remembering to take his		use in an arthritic patient who has lication during the day ?
r	A)	Diclofenac sodium	B)	Fenoprofen
	C)	Ibuprofen	D)	Oxaprozin.
148.	The	type of tissue culture used for t	he produ	ction of root-associated metabolites
	is kr	nown as		
	A)	tissue culture	B)	hairy root culture
	C)	two-phase system culture	D)	all of these.
149.	The	production of secondary metabo	olites is lir	nked to the
	A)	induction of morphological diffe	rentiation	. · · · · · · · · · · · · · · · · · · ·
	B)	topographical changes		•
4	C)	environmental changes		
	D)	atmospheric changes.		
150.	The	optimum pH of tissue culture m	edia is	
	A)	5 – 8	B)	6 - 8
į	C)	5 - 6	D)	5 - 7.
151.	Bota	nical source of cotton is		
	A)	Populus nigra	В)	Gossypium harbadense
	C)	Linum usitassimum	D)	none of these.
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152.	Guri	nar comprises the			
	A)	stem and roots of Gymnema sylves	stre	•	
	B)	leaves of Gymnema sylvestre		<i>,</i> •	
	C)	powdered endosperm of the seeds	of Cya	amopsis tetragonolobu	18
	D)	dried fruits of Ammi majus.	•		
153.	Fron	n callus, root growth can be enhanc	ed by	,	
	A)	increasing Cytokinin amount than t	hat of	f Auxin	
	B)	increasing Auxin amount than that	of Cy	tokinin	·
	C)	adding no hormone			
	D)	adding Gibberellins.			
154.	The	adulterant of purple Foxglove leaves	s is	201	
	A)	Synphytum officinale	В)	Cinchona officinale	
	C) .	Convallarie majalis	D)	Urginea maritima.	
155.	Naro	cotine contains which of the followin	ig moi	ieties ?	
	A)	Phenanthrene	B)	Benzyl isoquinoline	and the second
	C) ,	Quinoline	D)	Naphthalene.	
156.		principal active constituents of wosides?	hich	of the following drugs	s are dimeric
	A)	Aloe	B)	Senna	,
	C)	Digitalis	D)	Senna and Aloes.	
157.		baloin and Sennoside-A can be cate bectively.	egoris	ed as and	1
	A)	C-Glycoside, O-Glycoside			
•	B)	O-Glycoside, C-Glycoside			
	C)	C-Glycoside, N-Glycoside			
	D)	O-Glycoside, N-Glycoside.		•	
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158.	Ade	nine and kinetin are collectively call	ed as.	
1	A)	Auxins	B)	Gibberellins
	C)	Cytokinin	D)	Zeatin.
159.	The	ideal way to provide iron for a root	cultu	re would be to include
•	in th	ne medium.		
	A)	FeCl 3	B)	Fe ₂ (SO ₄) ₃
	C)	Fe EDTA	D)	FeSO ₄
160.	Whi	ch type of glycoside is present in al	oes ?	
	A)	O-Glycoside	B)	S-Glycoside
	C)	N-Glycoside	D)	C-Glycoside.
161.	Kell	er-Kiliani is a colour test specific for	the ic	dentification of
	A)	Sugar Molety	B).	Glycoside Moiety
	C)	Deoxy Sugar Molety	D)	Both (A) and (B).
.162.	Whi	ich of the following drugs is a natura	al inse	ecticide ?
	A)	Pyrethrum	B)	Tulsi
	C)	Tylopora	D)	Bael.
163.	Abs	orbent cotton dissolves completely v	vith ui	niform swelling in
•	A)	60% w/w sulphuric acid		
	B)	90% formic acid		
	C)	Ammoniacal copper oxide		
	D)	Ferrous ammonium sulphate.		
164.	Dev	elopment of Novel hybrid plant can	be acl	nieved with
·	A)	organ culture	B)	cell-suspension culture
•	C)	callus culture	D)	protoplast culture.
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C)

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D)

Araliaceae.

Rosaceae

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30 HIPS 179. Long term storage of which one of the following vaccines demands storage at - 20°C? A) DPT . B) DT C) Oral polio vaccine D) TT. 180. In immunization parlance, VVM refers to Vulnerable Vaccine Method Vulnerable Vaccine Mode B) Vaccine Vial Monitor C) Vital Vaccine Method. D) 181. ICH means International Conference on Harmonisation A) International Committee on Harmonisation C) International Council on Harmonisation none of these. D) 182. The dose related adverse reaction is called as A) B) Type B Type A D١ Type D. C) Type C is available on internet through the National Library of Medicine (NLM) home page at www.nlm.nih.gov. A) **BIOSIS** B) **EMBASE** Science Citation Index. **MEDLINE** D) 184. In ABC analysis C denotes A) average usage value items B) low usage value items C) costly and valuable items D) fast moving items.

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185.	The	The drugs that show antagonistic effects in nature whereby the sensitivity of the							
	tissues to one drug is altered by another drug, are								
	A)	Trimethoprin and Sulphonamide							
. '	B)	Acetylcholine and Noradrenaline							
÷	C)	Digitalis glycosides and Diuretics							
#	D)	Warfarin and Phenobarbital.							
186.	The	The term used to describe abnormal drug response is							
· 、 · · · · · · · · · · · · · · · · · ·	A)	Hypersensitivity	B)	Idiosyncrasy					
	· C)~	Anaphylaxis	D)	Teratogenicity.					
187.	Hos	pital pharmacy deals with							
:	A)	supply of ancillary products	1)					
•	B)	storage of biological products							
	C)	purchase of inventory drugs							
4.5	D)	both (A) and (B).							
188.	Drug causing direct liver damage is								
	A)	Isoniazid	B)	Indomethacin					
• :	(C)	Phenytoin	D)	Aspirin.					
189.	. Milk and antacids reduce absorption of tetracyclines by forming								
1 .	A)	chelation	B)	complexes					
	C)	protein binder	D)	insoluble complexes.					
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32 HIPS 190. Which one of the following statements is matched correctly? repeated consumption of a drug A) Drug abuse use of drugs for the conditions for which they Drug misuse B) are unsuited decreased response to pharmacological drugs C) Drug addiction periodic or chronic intoxication produced by Drug tolerance D) repeated consumption, 191. Medication errors include dispensing errors and medication A) B) patient compliance C) exact prescription D) none of these. 192. Coffee, tea and fruit juices antagonise the efficacy of antipsychotic drugs. A) Thioxantins Butyrophenones B) Sulpiride. C) A Phenothiazines D) 193. The principles of ICH guideline for GCP have their origin in A) Declaration of Canada

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B)

C)

D)

Declaration of Helsinki

Declaration of Austria

Declaration of Australia.

194.	Pha	se-I d	clinical trials are carried or	at					
		I.	to determine the maximu	m tolerate	ed dose in humans				
		II.	to determine the pharmacokinetics and pharmadynamics activity						
		III.	in healthy adult males						
		IV.	in healthy adult females.	-					
•	Of t	hese			•				
•	A)	I an	d II	В)	II, III and IV				
	C)	III a	nd IV	D)	I, II and III.				
195.	le containing multivitamin product								
÷	A)	acet	yl cysteine	B)	dilute Ca (OH) $_2$ solution				
	C)	docı	ısate sodium	D)	atropine sulphate.				
196.	96. Cholestyramine will probably interfere with the GI absorption of								
		ĮI.	Chlorothiazide		·				
		II.	Warfarin						
		III.	Phenobarbital.						
	Of t	Of these							
	A)	I on	ly	B)	II and III				
	C)	I, II	and III	D)	no interference.				
197.	7. Drug information sources include all, except								
	A)	jour	nals	B)	drugdex				
	C)	daili	es	D)	online pharmacy journals.				
198.	lculated by which of the following								
	A)	Annual purchase + Annual inventory							
	B)	Annual purchase × Annual inventory							
٠	C)	Annual inventory + Annual purchase							
	D)	Annual purchase + Annual inventory.							
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HIPS

- 199. Aluminium hydroxide gel is combined with Magnesium hydroxide gel in antacid preparations to
 - A) ensure synergism
 - B) counter the constipating effect of magnesium hydroxide
 - C) balance the purgative effect of magnesium hydroxide
 - D) improve the absorption of magnesium hydroxide.
- 200. Match List I correctly with List II and select your answer using the codes given below:

List I List II Salbutamol a) 1. Enhance GI-mobility b) Tolazoline. Stimulate heart rate 2. Propranolol **Bronchodilator** 'C) d) Suppress ventricular tachycardia. Isoprenaline

Codes:

 a
 b
 c
 d

 A) 3
 1
 4
 2

 B) 2
 1
 4
 3

 C) 4
 1
 2
 3

 D) 3
 2
 4
 1