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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.
- 3. Answer all questions.
- 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:

A [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.
- 10. 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]

- 11. 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 over.
- 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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3 **HIPS**

- 1. Which of the following trademarked sustained release systems are based on encapsulated drug particles that will dissolve at various rates?
 - I. Sequels
 - II. Spansules
 - III. Extentabs.

Of these

A) I only

B) III only

C) I and II

- D) I, II and III.
- 2. Compartmental models are often used to illustrate the various principles of pharmacokinetics. A compartment is best defined as
 - A) any anatomic entity that is capable of absorbing drug
 - B) a kinetically distinguishable pool of drug
 - .C) specific body organs in tissues that can be assayed for drug
 - D) any body fluid such as blood in urine that may contain drug.
- 3. Dimethyl sulphoxide is commonly used as an excipient in transdermal patches as
 - A) adhesive
 - B) permeation enhancer of lipophilic drugs
 - C) permeation enhancer of hydrophilic drugs
 - D) release liner.
- - A) < 500 Da, 1 5

B) > 500 Da, 1 - 5

C) < 500 Da. 5 - 9

- D) > 500 Da, 5 9.
- 5. All of the following drugs are believed to undergo significant first-pass hepatic biotransformation, except
 - A) phenytoin

B) lidocaine

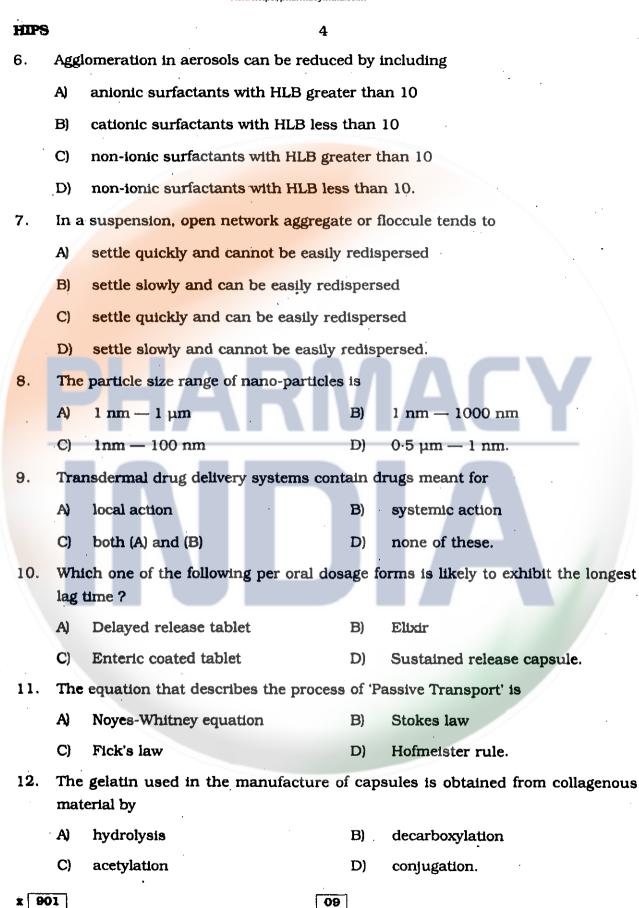
C) morphine

D) nitroglycerine.

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13.	Opa	alux is		
	A)	colour concentrate for fluidized be	d coat	ting
	B)	colour concentrate for film coating		
	C)	complete colour concentrate for er	nteric (coating
	D)	colour concentrate for sugar coatt	ng.	
14.	Cre	ams are		
	A)	emulsions	B)	gels
	C)	jellies	D)	magmas.
15.	Diss	solution tests for tablets are done to	meas	sure indirectly
//.	A)	hardness	B)	bioavailability
	C)	solubility	D)	friability.
16.	Tric	<mark>hlorom</mark> onofluoromethane is numeric	cally d	esignated as
	A) —	12	B)	11
	C)	114	D)	22.
17.	Seal	ling in sugar coating is done		
	A)	to release drug in the intestine		
	B)	to sustain release of the drug	47	
	C)	to round the edges of tablet core		
;	D)	to prevent moisture penetration in		
18.	for i	is used to remove the language	Pyroge	en during the preparation of water
	A)	Membrane filter	B)	Condenser
	C)	Still head	D)	Filter head.
١9.	The	type of official eye ointment base is		
	A)	hydrocarbon	B)	absorption
	C)	water miscible	D)	water soluble.

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20.		enteral product with an osmotic pre oride solution is referred to as	ssure	less than that of 0.9% w/v sodium
	A)	isotonic solution	B)	hypertonic solution
	C)	hypotonic solution	D)	iso-osmotic solution.
21.	Whi	ch of the following is not a super-di	sinteg	rant?
	A)	Microcrystalline cellulose	B)	Sodium starch glycolate
	C)	Croscarmelose	D)	Crosporidone.
22.	Terr	ninally sterilized products are		
	A)	those that are sensitive to heat and	l gamı	na irradiation
	B)	those that can be sterilized after fil	ling a	nd sealing
	C)	those products that can be autocla	wed	
	D)	usually suspensions or powders.		IAI Y
23.	Slug	gging is also called as		
	A) _	dry granulation	B)	wet granulation
	C)	bulk production	D)	direct compression.
24.	Pine	ocytosis is known as		
	A)	vesicular transport	B)	engulfment of small solutes
	C)	engulfment of larger particles	D)	absorption phenomena.
2 5.	List	t of the substances that are rec	luired	to be used only under medica
	sup	pervision and which are labelled acc	ording	gly is / are
	A)	R	B)	G
	C)	P	D)	C and C_1 .
26.	_	ablishment(s) which has/have a qu	alified	person engaged in compounding o
		ng is / are	וכו	Chamista and druggists
	A) C)	Drug store Pharmacy	B) D)	Chemists and druggists none of these.
		·	<u> </u>	none of these.
x 9	01	Os	9	

HIPS Licence for wholesale of drugs specified in the schedule C and C_1 is issued in 27. Form 20-A Bì 20-B A) 21-B Dì 22-A. C) The left hand top corner of the label of schedule X bulk drugs contains symbol, 28. B) RMP A) R_{x} · C) \boldsymbol{X} XR_{ν} D) 29. In constitution of State Pharmacy Councils total number of Registered Pharmacists to be elected is A five . B) six C) D) seven four. 30. The Drugs and Cosmetics Rules were passed in the year of A) 1945 B) 1947 1944 C) D) 1946. How many representatives are nominated by the Central Government to Drug Consultative Committee? A) 1 B) C) D) The sample taken by the Drug Inspector from the retail premises should be divided into A) 4 parts 3 parts B) **C**) ¹ 2 parts D 5 parts. 33. As per GMP, change rooms to the aseptic areas of sterile product manufacturing area should be clearly demarcated into the following rooms, except A) - Black room B) Blue room Grey room D) White room.

Turn over

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HIPS 8 As per GMP, during tablet compression, in-process control should be done at regular 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. Drug (Price Control) Order came into force in the year 1955 A) 1979 B) C) 1960 D) 1987. Equipment recommended for the manufacture of powders come under Schedule H B) Schedule M A) C) Schedule N D) Schedule X. Magic remedies include A) **Talismans** B) Mantras C) Kavachas all of these. D) Spurious drugs mean 38. imitations substitutes C) resembling other drugs D) all of these. 39. GMP for Ayurvedic, Siddha and Unani medicines are covered by A) Schedule U Schedule T B) C) Schedule W D) Schedule M. Protoplasmic plant tissue culture method was introduced in 1960 by A) Cocking B) Skoog & Miller C) Gamborg and Neabors D) Carlson. 901

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41.		sugar concentration of molasses us uld be	sed in	the production of industrial alcohol
	A) _	10% to 18%	B)	4% to 8%
	C)	15% to 25%	D)	20% to 30%.
42 .	The	fibrin clot produced when thrombir	is mi	ixed with
	A)	fibrinogen	B)	fibrin foam
	C)	dried human serum	D)	citrate-saline.
43.	Exo	toxin producing bacteria are		
	A)	Salmonella typht	B)	Vibrio cholerae
	C)	Clo <mark>str</mark> idium tetani	D)	Pasteurella pestis.
44.		owing are the carbon sources us	sed in	the fermentative production of
	Legli	utamic acid, except		
-	A)	n-paraffin	B)	acetic acid
· · · · · · · · · · · · · · · · · · ·	C)	ethanol	D) ·	propylene glycol.
45.	Amo	ong the proteins present in horse se	rum,	antitoxins (diphtheria) are largely
	asso	ociated with		
	A)	gamma globulins	B)	beta globulins
:	C)	albumins	D)	all of these.
46	Sma	ull bench fermentors are made up of	*******	material.
	A)	stainless steel	B)	borosilicate glass
	C)	plastic	D)	all of these.
47.	Bior	reactor is the instrument used for gr	owing	
	A)	bacterial cells	B)	insect cells
	C)	mammalian cells	D)	both (B) and (C).

HIPS		Visit: https:/pharmacyii	idia.co.iii	
48.		asfer of genetic material from one le eriophage is called	oacter	ium to another bacterium through
	A)	Transduction	B)	Conjugation
	C)	Transformation	D)	all of these.
49.	Mac	roglobulin is		
	A) .	Ig M	B)	Ig A
	C)	Ig D	D)	Ig E.
50.	Schi	ck 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	ıt by	studies.
	A)	in vivo	B)	in vi tro
	C)	in vivo and in vitro	D)	neither in vivo nor in vitro.
53.	Who	oping cough vaccine employs killed	cell o	of
\\ .	A)	Bordetella pertussis	B)	Pseudomonas aeruginosa
	C)	Vibrio cholerae	D)	Salmonella typhti.
54.	Whi	ch one of the following is the suitab	ole site	e of self-injection of interferons?
	A)	Subcutaneous	B)	Abdomen
,	C)	Legs	D)	Finger.
-	A si	gnificant number of antibodies now	in use	e belongs to Immunoglobulin,
55.	•			· · · · · · · · · · · · · · · · · · ·
55.	A)	Ig G	B)	Ig H

 $\begin{array}{c} \textbf{Visit: https:/pharmacyindia.co.in} \\ & 1 \ 1 \end{array}$

6.	Higl	h concentration of several proteins i	s obta	uned from serum.
	A)	monkey	B)	horse
	C)	rabbit	D)	rat.
7		ich drug is used to prevent embol	ism ii	n the lung and during myocardial
	A)	Granulocyte-macrophage colony-st	imula	ting factor (GM-CSF)
	B)	Alteplase		
	C)	EPOGEN (EPO)		
	D)	Human growth hormone.		
8.	Whi	ich enzyme is used by the HIV to for	rm DN	IA in the host cell ?
	A) .	Restrictive endonuclease	В)	DNA-directed polymerase
	C)	Reverse transcriptase	D)	Both (A) and (B).
9.	Wh	ich type of cell does not contain dou	ble-st	randed deoxyribonucleic acid?
	A)	Human cells		
	B)	Bacteria cells		
	C)	Human immunodeficiency virus (HľV) (ells
	D)	Fungal cells.		
0.	Dex	trans 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.
1.	The	organism used for the production of	of Dex	tran is
	A)	Leuconostoc mesenterolds	B)	Lactobacillus bulgarium
	C)	Clostridium botulinum	D)	Granulobacter botulinum.
2.	Med	chanism of citric acid fermentation i	s conf	irmed by
	A) * -	theory of Emde	B)	Krebs' cycle
	C)	theory of Ciusa and Brüll	D)	Bernhauer's theory.
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63.	The	first pharmaceutical product to be	produ	ced by mammalian cell culture is
•	· A)	tPA	B)	tRNA
	C)	tDNA	D)	tG _H .
64.	Indi	ia is the country	in th	e world to develop an indigenous
	Нер	patitis-B vaccine.		
	A)	2nd	B)	3rd
	C)	4th	D)	5th.
65.	Ext	inction 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 Ch	romate	ography (TLC) is
	.A)	adsorbent		ALY
	B)	liquid held between glass plate an	d adso	orbent
	C)	glass plate		
	D)	none of these.		
67.	The	wave number is defined as		
·	A)	number of waves per unit of lengt	h	
	B)	number of waves per unit of metr	е	
	C)	number of waves per cm		
	D)	number of waves per unit of widt	h.	
68.	The	quality assurance personnel respo	nsibili	ties does not include
	A) -	maintaining copies of approved st	udy pl	ans
	B)	preparation of SOP		
	C)	inspection of final reports to confi	rm m	ethods and procedures
	D)	issue of product development plan	n.	
+ [2	01	O	3 7	

69.	The	e constituents of Karl Fischer reagent are	• •
	A)	SO $_{3}$, solution of iodine, anhydrous pyridine, ethanol	
	B)	SO_2 , solution of todine, anhydrous pyridine, acetone	
i e	C)	SO $_3$, solution of iodine, anhydrous pyridine, anhydrous methan	ıol
	D).	SO_2 , solution of iodine, anhydrous pyridine, anhydrous methan	nol.
70 .		electron capture detector, may be used as a car mpounds of high electron affinity.	rier gas for
	A) .	Nitrogen B) Argon	
• /	C)	Hydrogen D) Carbon dioxide.	. \
71.	Whi	ich of the following statements about ISO is incorrect? ISO certifies organisations which apply for ISO 9001 compliance	V
	B) .	ISO 9000 is not a prescriptive standard for quality.	
	C)	ISO 9000 is a process oriented rather than result oriented stand	lard.
	D)	ISO 9000 does not provide industry specific performance requir	ements.
72.		e composition of the Barium sulphate reagent used in the lin	nit test for
	A)	Bartum sulphate, Sulphate free alcohol and Ferrous sulphate	
	B)	Barium chloride, alcohol and Potassium chloride	
	C)	Barium sulphate, alcohol and Potassium chloride	1
í	D)	Barium chloride, Sulphate free alcohol and Potassium sulphate.	
73.	Kati	tharometers & Bolometers are different types of	•
į	A)	pumps B) detectors	
	C)	monochromators D) recorders.	
			I 70

HIPS In IR spectroscopy which region provides information for molecular structure elucidation? Near IR B) Far IR A) C) Middle IR D) Very near IR. In HPLC which detector is based upon bulk property of elute? A) Refractive index detectors B) Diode array detectors C) Fluorescence detectors D) PMT. 76. Example for Emission Spectroscopy is A) Atomic Absorption Spectroscopy B) Flame Photometry all of these. CI Fluorimetry D) In NMR spectroscopy, the chemical shift is expressed in parts per million A) B) gauss C) tesla D) hertz. In mass spectroscopy for chemical ionization which reactant gas is most widely used? B) A) Neon Argon C) Methane D) Oxygen. In the determination of selenium by Fluorimetry, the sensitivity can be increased by using the reagent, 2, 3-diaminonaphthalene A) B) 3. 3-diaminobenzidine C) Cyanogen chloride 75% v/v sulphuric acid in ethanol. D) In IR spectra, the absorption at 3300 cm⁻¹ and at 1020 cm⁻¹ indicates the presence of A) B) Amide - C = ONH group C) Aliphatic C - H D) Hydroxyl group.

8 1.	As per the GLP, full calibration of spectrophotometers should be done			
	A) 1	once a day	B)	once a month
	C)	every quarter	D)	half-yearly.
82.	The	closeness of the results obtained by	the p	procedure to the true value is
;	A) (linearity	B)	precision
	C)	accuracy	D)	sensitivity.
83.	Whi	ch of the following contains a chrom	ophoi	re?
:	·A)	Ethylene	B)	Ethane
/	C)	Both (A) and (B)	D)	None of these.
84.	The	presence of which of the following	group	s increases fluorescence intensity?
i I	A)	Amino group	B)	Nitro group
.	C)	*Both (A) and (B)	D)	None of these.
85.	The	purple colour formed in the limit te	st for	iron is due to
	A)	Ferric thioglycolate	B)	Ferrous thioglycolate
ŧ	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 granulat	ed zin	c and HCl help to
	A)	increase the sensitivity of the test		
	B)	produce stable colour		
. 11	C)	provide an acid medium		
; j.	D)	reduce the arsenic or arsenious ac	id to a	arsine.
88.		he limit test for sulphates, the alcoh	nol 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.	The	volume of carrier gas required to	elute (one half of the compound from the
.¢	colu	mn is exp res sed as		-
	A)	Retention time	B)	R_f value
	C)	R _X value	D)	Retention volume.
90.	In I	R spectrum, the functional group	region i	8
* .	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.		ample is withdrawn or seized fi led. The payment of fair price of the		ug store by a drug inspector and ple
// •	A)	is made to the drug store owner		
	· B)	is not made		
	C)	is made to the drug store owner with a receipt	r and ii	n case of refusal a Form is filled up
	D)	the drug store owner must be in	nsisted :	to give it free of cost.
92.		igs Technical Advisory Board (I creas DTAB-Ayurvedic, Siddha and		Allopathy consists of 18 members drugs consists of
	A) -	18 members	B)	20 members
	C)	15 members	D)	none of these.
93.	3. The list of disease for which advertisement banned or prohibited is finalised consultation with			
	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	wing of	Drugs and Cosmetics Act?
	A)	Advisory wing	B)	Analytical wing
		•		•

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Administrative wing

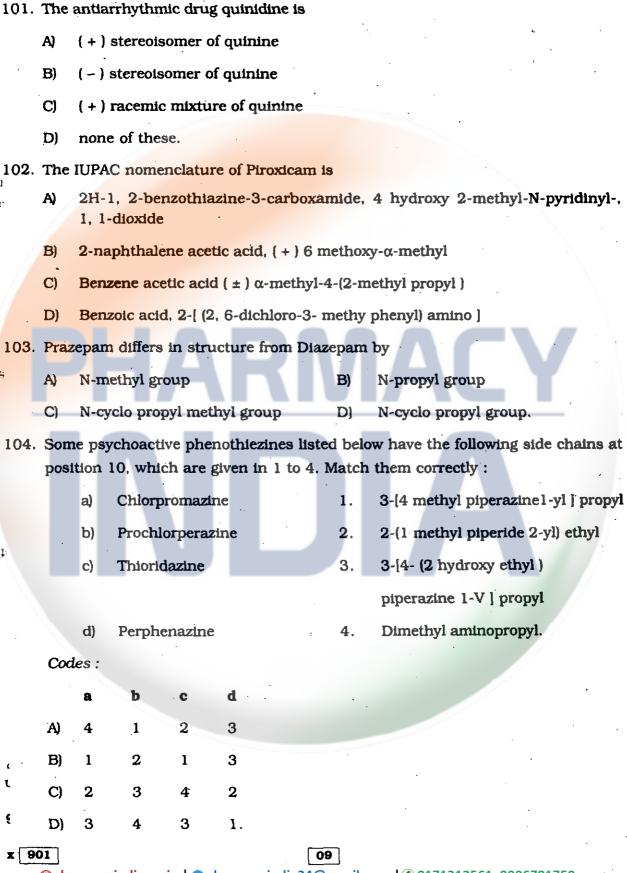
C)

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D)

Education and Pharmacy wing.

95.	tobacco powder, lime and molasses along with red mineral matter. Within the				
ŀ	pro	vision of D & C Act it is			
1	A)	cosmetic	B)	food	
	C)	drug	D)	none of these.	
96.	Sch	edule M incorporating GMP (Good	Manu	facturing Practices) was introduced	
	in				
	A)	1987	B)	1988	
	C)	1989	D)	1990.	
97.	In t	he Drugs (Price Control) Order, 1	995 th	ne first schedule consists of	
ĸ/	A)	list of books	B)	list of bulk drugs	
4	C)	list of formulations	D)	none of these.	
98. ⁸	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			
1	D)	none of these.			
99.	Bate	ch Processing Records (BPR) shou	ıld con	tain the following details, except	
	A)	Analytical control number			
	B) `	Raw material manufacturers' deta	រា		
	C)	Batch number			
ı	D)	Date of commencement of operation	on.		
100.	The	Head Office of Drugs Technical Ad	lvisory	Board is at	
	A)	New Delhi	B)	Kolkata	
	C) ;	Mumbai	D)	Chennal.	
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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 nistamines is	he pa	ir in which both are, 'dual-acting'	
:	A) B)	Cetirizine and Cromolyn sodium Azelastine and Cetirizine		IALY	
	C)	Azelastine and Ketotifen			
	D)	Ketotifen and Cromolyn sodium.			
108.	Diaz	oxide and Minoxidil can be describe	d as		
	A)	Potassium channel openers	B)	Potassium sparing diuretics	
	C)	Calcium channel blockers	D)	Sodium channel openers.	
109.		ne lidocaine series of local anaesthe n up to three carbon units,			
	A)	increases	B)	abolishes	
	C)	reduces	D)	does not alter.	
110.		ch of the following anti-histamines y?	does	not cross the blood brain barrier	
	A)	Diphenhydramine	B)	Cyclizine hydrochloride	
	C)	Chlorpheniramine maleate	D)	Cetirizine.	
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111.	1. The fluorine in Flurazepam is present in			
	A)	5 ¹ position	B)	3' position
	C)	2 position	D)	4' position.
112.	Ran	itidine contains heteroo	yelie :	ring.
	A)	Imidazole	B)	Furan
	C)	Thiazole	D)	Pyridine.
113.	Asp	irin can be estimated by		
	A)	non-aqueous titration	B)	complexometry
	C)	acid-base titration	D)	dead-stop end point method.
114.	Whi	ch of the following is anti-cholinergi	c drug	g ? ·
	A)	Carbachol	B)	Phenyl ephrine
	C)	Eucatropine	D)	Procainamide.
115.	Clo	nidine is used in the treatment of th	e follo	owing disorders, except
	A)	glaucoma	B)	hypertension
•	C)	arrhythmia	D}	opiate withdrawal syndrome.
	0	NHCH (CH ₃) 2		
116.	·	OH is the str	notur	
110.	Y		uctui	e or
	C	H ₂ CONH ₂		
	A) .	Atenolol	B)	Metoprolol
	C)	Acebutolol	D)	Timolol.
117.		entral carbon atom not directly cor		
		lary nitrogen through a 2 carbon un ups on the nitrogen is the pharmaco		
	A)	H ₁ receptor antagonists	В)	Narcotic analgesics
	C)	Thiazide diuretics	D)	Butyrophenone antipsychotrics.
		· · · · · · · · · · · · · · · · · · ·	- <i>,</i>	J <u>F</u>
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118.	3. Homatropine is a semisynthetic obtained or 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^{\prime} -chloro substituted analogue of c	xazep	am is	
	A)	Lorazepam	B)	Diazepam	
	C)	Temazepam	D)	Prazepam.	
120.	Ana	lgesic with N-Aryl anthranillic acid n	ucleus	s is	
	A)	Paracetamol	B)	Meclofenamic acid	
	C)	Phenyl butazone	D)	Anti-pyrine.	
121.	Cho	linergic receptor antagonist existing	as ena	antiomer is	
	A)	Methacholine	B)	Carbachol	
	C)	Acetyl choline	D)	Bethanechol.	
122.	. Tripelennamine is used as its				
	A)	Succinate	B)	Maleate	
	C)	Adipate	D)	Citrate.	
123.	Whi	ch one of the following is not a non-	barbit	urate?	
	A)	Paraldehyde	B)	Carbromal	
	C)	Nitrazepam	D) .	Thiopental Sodium.	
124.	Cycl	omethycaine sulphate is used in			
	A)	anaesthetic in chemical burns			
	B)	skin abrasions			
	C)	dermatological lesions			
	D)	all of these.			
125.		erpine is contraindicated in patients			
	A)	Epilepsy	B)	Hypertension	
	C) :	Mental depression	D)	Schizophrenia.	

126.	Digit	Digitalis overdose can be reversed by the administration of						
	A)	Phenytoin						
	B) Calcium							
	C) Fab fragments of Digoxin antibody							
	D)	Sodium.						
127.	Drug	gs causing allergic reactions generally	act a	s				
	A)	Antigen) 1	Haptens				
	C)	Antibodies D) 1	Mediators.				
128.	A po	otent tranquilizer which also exhibits s	trong	hypotensive effect is				
	<u>A</u>)	Chlordiazepoxide B	3) 1	Meprobamate				
	C)	Reserpine D) 1	Thorazine.				
129.	Salid	cylates are metabolised through						
	A)	hydroxylation	3)	oxidation				
	Ć)	conjugation with glucuronic acid D) 1	reduction.				
130.	Sod	lium 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	it induces sleep					
	B)	synthesis of cholesterol is maximum	duri	ng night				
	C)	the patient would be affected by sun	light	if taken during daytime				
	D)	of better absorption.						

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23 132. Thiocyanate accumulation and the consequent toxicity is a possibility when excess dose of is administered. B) ' Hydralazine Minoxidil Sodium nitroprusside Clonidine. D) 133. The specific antidote for Paracetamol poisoning is 4-Methyl Pyrrazole N-Acetyl cysteine A) B) Folinic acid D) Sodium thiosulphate. Cl 134. Digitalis produces bradycardia by the following mechanisms, except reflexly through no dose ganglion A) direct stimulation of vagal centre sensitization of SA Node to acetylcholine sensitization of SA Node to adrenaline. 135. Pilocarpine can be used in Al Coronary insufficiency Asthma Glaucoma D) Hyperthyroidism. 136. Fluoxetine is a / an 5-HT partial agonist A) anti-histaminic B) C)inhibitor of 5-HT uptake D) specific 5-HT 3 receptor antagonist. 137. Tolerance refers to genetically determined sensitivity to a drug called as innate tolerance learned tolerance B) acute tolerance **C**). dispositional tolerance.

138.	. Which one of the following is correctly matched?				
	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 region drug concentration is referred as		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	etabolism of methyl dopa is	
	A)	Acetylation	B)	Sulphation	
	C)	N-oxidation	D)	S-oxidation.	
141.	In a	asthma/COPD patients, which	type of	antihypertensive drug should be	
	avoi	ded ?			
	A)	β-adrenergic blockers	B)	Diuretics	
	C)	Calcium channel blockers	D)	ACE inhibitors.	
142.	Dru	gs having hydroxyl or carboxylic	acid grou	up can easily conjugate with	
	A)	sulphate	B)	glycine	
	C)	acetyl coenzyme-A	, D)	glucuronic acid.	
143.	Cole	estipol is a/and	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 biosynthesis	s of cated	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	tera	togenicity.
	A)	Phocomelia	B)	Hyperplasia
	C)	Phytomelia	D)	Hypoplasia.
146.	Anti	dote for benzodiazepine overdosage	e is	
	A)	Flumazenil	B)	Flupenthixol
	C)	Fluphenazine	D)	Fluoxentine.
147.		ch of the NSAIDS would be of part culty in remembering to take his/h		
	A)	Diclofenac sodium	B)	Fenoprofen
	C)	Ibuprofen	D)	Oxaprozin.
148.		type of tissue culture used for the nown as	produ	ction of root-associated metabolite
	A)	tissue culture	B)	hairy root culture
	C)	two-phase system culture	D)	all of these.
149.	The	production of secondary metabolite	es is lii	nked to the
	A)	induction of morphological differen	itlation	
	B)	topographical changes		
	C)	environmental changes		
	D)	atmospheric changes.		
150.	The	optimum pH of tissue culture med	la is	
٠	A)	5 – 8	B)	6 – 8
į.	C)	5 – 6	D)	5 - 7.
151.	Bota	nical source of cotton is		
	A)	Populus nigra	B)	Gossypium harbadense
	C)	Linum usitassimum	D)	none of these.
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HIPS 26 152. Gurmar comprises the A) stem and roots of Gymnema sylvestre leaves of Gymnema sylvestre B) C) powdered endosperm of the seeds of Cyamopsis tetragonolobus D) dried fruits of Ammi majus. 153. From callus, root growth can be enhanced by increasing Cytokinin amount than that of Auxin A) B) increasing Auxin amount than that of Cytokinin C) adding no hormone D) adding Gibberellins. 154. The adulterant of purple Foxglove leaves is Cinchona officinale Synphytum officinale B) C) · Convallarie majalis D) Urginea maritima. 155. Narcotine contains which of the following moieties? Phenanthrene A B) Benzyl isoquinoline Quinoline Naphthalene. C) D) 156. The principal active constituents of which of the following drugs are dimeric glycosides? Aloe B) A Senna Senna and Aloes. C) Digitalis Dì 157. Barbaloin and Sennoside-A can be categorised as and respectively. A) C-Glycoside, O-Glycoside B) O-Glycoside, C-Glycoside C) C-Glycoside, N-Glycoside O-Glycoside, N-Glycoside.

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158.	8. Adenine and kinetin are collectively called as				
	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 ale	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	ch of the following drugs is a natura	d inse	cticide ?	
	A)	Pyrethrum	B)	Tulsi	
	C)	Tylopora	D)	Bael.	
163.	Abs	orbent cotton dissolves completely w	dth 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.	
		<u> </u>			

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165.	The l	botanical name of Aloes from Sout	h Afric	a (Cape variety) is
	A)	Aloe barbadensis	B)	Aloe ferox
	C)	Aloe perryi	D)	Aloe candelabrum.
166.	Cass	ia senna is cultivated in		
	A)	India	B)	Arabia
	C)	Somalia	D)	Sudan.
167.	Napl	hthalene glycoside isolated from se	enna le	aves and pods is
	A) .	Sennoside A		•
	B)	Rhein-1-glucose		
	C } .	Rhein-8 diglucoside	VЛ	IACV
	D)	6-hydroxymusizin glucoside.	V	
168.	Follo	owing are the chemical constituent	ts of Br	ahmi <i>except</i>
	A)	Sapontns	B)	Glucosides
	C)	Alkaloid Brahmine	D)	Herpestine.
169.	Sen	na contains		
	A) '	C-glycosides	B)	O-glycostdes
,	C)	S-glycosides	D)	N-glycosides.
170.	Digi	talis leaves should be dried below		
	A)	50°C	·B)	80°C
	C)	60°C	D)	100°C.
171.	Cen	tella asiatica belongs to the family	of	
	A)	Scrophulariaceae	B)	Umbelliferae
	C)	Rosaceae	D)	Araliaceae.
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172.	Holy	basil is the synonym for		
	A)	Methi	B)	Gymnema
	C)	Tulsi	D)	Digitalis.
173.	A pl	acement for storage of products is		
	A)	private warehouse	B)	public warehouse
	C)	bonded warehouse	D)	all of these.
174.	Whi	ch of the following levels of material	cautic	ons against stock-out ?
	A)	Reordering level	B)	Minimum level
	C)	Maximum level	D)	Average stock level.
175.	Sele	ction of site of a drug store depends	upon	ΛΔΓ V
	A)	availability of finance	B)	existence of hospitals
	C)	safety	D)	all of these.
176.	Whic	ch of the following is/are objective(s	of pu	irchasing?
	A)	Purchase of right quality	B)	Purchase of right quantity
	'C)	Purchase from right source	D)	All of these.
177.	•••••	can be considered as prima	ury soi	urces of drug information.
	A)	Pharmacopoeias	B)	Journals (drug based)
	C)	Package inserts	D) .	Formularies.
178.	Inda	pamide is taken preferably in the m	orninį	g because
	A)	exposure to sunlight helps conversi	ion to	active metabolite
	B)	to minimize the effect of increased	freque	ncy of urination during night
	C)	cholesterol synthesis is least during	g dayt	ime
	D)	cholesterol synthesis is maximum o	luring	daytime.

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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 in	nmunization parlance, VVM refers	to				
	A)	Vulnerable Vaccine Method					
	B)	Vulnerable Vaccine Mode					
	C)	Vaccine Vial Monitor					
	D)	Vital Vaccine Method.					
181.	ICH	CH means					
	A)	International Conference on Harm	onisat	ion			
	B) .	International Committee on Harm	onisati	on			
	C)	International Council on Harmonis	sation				
	D)	none of these.					
182.	The	dose related adverse reaction is co	alled a	s			
	A)	Type A	B)	Type B			
	C)	Type C	D)	Type D.			
183.	(NLM) home page at www.nlm.nih.gov.						
	A)	BIOSIS	B)	EMBASE			
	C)	MEDLINE	D)	Science Citation Index.			
184.	In A	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					
	tissu	tissues to one drug is altered by another drug, are					
	A)	Trimethoprin and Sulphonamide					
	B)	Acetylcholine and Noradrenaline					
•	C)	Digitalis glycosides and Diuretics					
21 21 2	D) -	Warfarin and Phenobarbital.					
186.	The	term used to describe abnormal dru	ig res	ponse is			
·	A)	Hypersensitivity	B)	Idiosyncrasy			
: 	C)~	Anaphylaxis	D)	Teratogenicity.			
187.	Hospital pharmacy deals with						
i.	A)	supply of ancillary products	7				
. \	B)	purchase of inventory drugs					
• T.	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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190.	0. Which one of the following statements is matched correctly				
	A)	Drug abuse		repeated consumption of a drug	

B) Drug misuse — use of drugs for the conditions for which they are unsuited

C) Drug addiction — decreased response to pharmacological drugs

D) Drug tolerance — periodic or chronic intoxication produced by repeated consumption.

191. Medication errors include

- A) dispensing errors and medication
- B) patient compliance
- C) exact prescription
- D) none of these.

Butyrophenones

- A) Thioxantins B)
- C) Phenothiazines D) Sulpiride.
- 193. The principles of ICH guideline for GCP have their origin in
 - A) Declaration of Canada
 - B) Declaration of Helsinki
 - C) Declaration of Austria
 - D) Declaration of Australia.

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194.	Phase-I clinical trials are carried out				
		I.	to determine the maximum to	lerate	d dose in humans
		II.	to determine the pharmacokir	netics	and pharmadynamics activity
		III.	in healthy adult males		
		IV.	in healthy adult females.		
	Of t	hese			
	A)	I and	d II	B)	II, III and IV
	C)	III aı	nd IV	D)	I, II and III.
195.	5. A child who swallows an overdose of fluoride containing multivitamin produshould be treated with				le containing multivitamin product
/	A)	acety	yl cysteine	B)	dilute Ca (OH) 2 solution
-//	C)	docu	is <mark>a</mark> te <mark>sodium</mark>	D)	atropine sulphate.
196.	Cholestyramine will probably interfere with the GI absorption of				ne GI absorption of
		I.	Chlorothiazide		
		II.	Warfarin		
		HI.	Phenobarbital.		
\	Of th	iese			
	A)	I only		B)	Il and III
	C)		and III	D)	no interference.
197.	Dru	g info	rmation sources include all, ex	cept	
	A) .	journ	nals	B)	drugdex
	C)	dailie	es	D)	online pharmacy journals.
198. In inventory control the turnover rate is calculated by which of the formulae?				lculated by which of the following	
A) Annual purchase + Annual inventory					
	B)	Annı	ual purchase × Annual inventor	У	
	C)	Annı	ual inventory + Annual purchas	ве	
	Ď)	Annu	ıal purchase + Annual inventor	ry.	
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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:

