D.IPH/10

Sl. No. :

	201	11, 10
Register Number		

#### 2019

# PHARMACY / PHARMACEUTICAL SCIENCES (Degree Std.)

Time Allowed : 3 Hours

Maximum Marks: 300

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

#### IMPORTANT INSTRUCTIONS

- The applicant will be supplied with Question Booklet 15 minutes before commencement of the examination.
- This Question Booklet contains 200 questions. Prior to attempting to answer, the candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed, it shall be reported to the Invigilator within first 10 minutes and get it replaced with a complete Question Booklet. If any defect is noticed in the Question Booklet after the commencement of examination, it will not be replaced.
- Answer all questions. All questions carry equal marks. 3.
- 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.
- An answer sheet will be supplied to you, separately by the Room Invigilator to mark the answers. 5.
- You will also encode your Question Booklet Number with Blue or Black ink Ball point pen in the space 6. provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per Commission's notification.
- 7. 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 proces (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle 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 :

(n) (n)

- 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 time of 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.
- Do not make any marking in the question booklet except in the sheet before the last page of 10. the question booklet, which can be used for rough work. This should be strictly adhered.
- Applicants have to write and shade the total number of answer fields left blank on the boxes provided 11. at side 2 of OMR Answer Sheet. An extra time of 5 minutes will be given to specify the number of answer fields left blank.
- 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.

4.	Uses	of Puses with less capacity prever	ILS -	
	(A)	Mechanical hazard	(B)	Chemical hazard
	S	Electrical hazard	(D)	Dust hazard
	N. Second			
	-		10 11	**************************************
2.		following tests are usually performe		(14)(H.44)(H.15)(H.5)(H.5)(H.4)(H.5)(H.5)
	(A)	Test for penetrability	(B)	Extractive test
	(C)	Fragmentation test		Dissolution test
			78	
3.	Flow	property of a drug can be determin	ed by mea	asurement of
	5	its angle of repose	(B)	its partition coefficient
	(C)	its solubility	(D)	its dissociation constant
	1000000			
4.		Henderson-Hasselbach equation is		
		pKa of a drug (dissociation const	ant of a dr	ug)
	(B)	melting point of a drug		
4	(C)	boiling point of a drug amount of drug in a dosage form	15.0	
2	(D)	amount of drug in a dosage form		
5.	Pre-f	ormulation studies involve		1. 4. 1.
	S	Development of suitable dosage f	orm for a	drug
	(B)	Determination of pharmacologica	d action of	a drug
	(C)	Determination of molecular struc	cture of a	lrug
	(D)	Determination of adverse drug re	eaction	
				E. (44)
6.	Tho	sweatening agar commonly used in	chewable	tablet is
0.	(A)	Sucrose	(B)	Honey
	4C2	Mannitol	(D)	Saccharine
			- 4-7	
			3	D.IPH/

7.	The	maximum absorption is shifted to longer wavelengths, is
	S	Batho chromic shift (B) Hypso chromic shift
	(C)	Hyper chromic shift (D) Hype chromic shift
82_		
8.	In Ir	ndia GMP guidelines for manufacture of sterile products is given in
	9	Schedule M of Drugs and cosmetics act 1940
	(B)	Schedule MI of Drugs and cosmetics act 1940
	(C)	Schedule MII of Drugs and cosmetics act 1940
	(D)	Schedule MIII of Drugs and cosmetics act 1940
9.	The	following test are used for evaluation of parental except?
	(A)	Sterility test Friability test
	(C)	pyrogen test (D) Clarity test
10.	Ав ре	er I.P, all blood products should pass
	S	The test for sterility (B) Legale test
	(C)	Benedict's test (D) Monlisch's test
	9	
11.	Choo	se the correct statement
	1	Plasma substitutes should have viscosity similar to that of plasma
	(B)	Plasma substitutes should be immunogenic
	(C)	Plasma substitutes must be colourless
	(D)	Plasma substitutes must be retained by the human body

	(C)	First pass metabolist	n of the drug	(D)	Solubity of the drug	
13.		ch of the following para us time?	meter are evalu	ated b	by comparing curves of serum concentration	Ol
	(A)	peak concentration, l	oiclogical half lit	fe and	elimination rate constant	
	(B)	biological half life, to	ex and absorptio	n rate	constant	
	101	peak concentration, t	max and total are	ea und	er the curve	
	(D)	adsorption rate const	ant, area under	the cu	arve and elimination rate constant	
	1000					
14.		time period for which		oncent	tration of drug remains aboves minimu	n
	5	duration of action		(B)	maximum action time	
	(C)	intensity action		(D)	termination of action	
15.		ch of the following met graph?	hods is used to	calcul	ate the AUC of a drug from a blood leve	el
	(A)	rules of nines		(B)	law of diminishing returns	
	S	trapezoidal rule		(D)	termination of action	
16.	The		the separation		omponents in column chromatography	i
	5	Adsorption		(B)	Partition	
	(C)	Size exclusion		(D)	Differentiation	

17. The type of Immunity produced by administration of Tetanus antitoxin is

(A) Naturally acquired active immunity

Artificially produced passive immunity

(C) Artificially stimulated active immunity

(D) Naturally acquired passive immunity

18. Which chemical is used to kill Bordetella pertusis in the preparation of pertussis vaccine?

(A) Salicylic acid

(B) Acetic acid

9

Formalin

(D) · Chlorxylenol

5

Job notification

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**Study Material** 

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- In plant cell culture, the differentiation into shoot and root are achieved by providing 28. appropriate levels of
  - Cytokinins and Gibberillins (A)
- (B) Micro and Macro nutrients
- Auxins and Cytokinins
- (D) Auxins and Gibberillins
- Explain in plant tissue culture refers to 29.
  - Tissue used for subculture from previously cultured cells (A)
  - Any part of the plant that is used to establish a new culture
  - Whole seed used to initiate culture (C)
  - The entire plant from which culture material is sourced (D)

30.	In batch	formentation (	ha initial	annountration of	faugora char	ld be limited to
13/11/2	III Datecii	termentamon (	me minim	concentration o	i sugars snou	na be militea to

(A) 11%

- 3
- 12%

(C) 13%

(D) 14%

### 31. Biotin is required for the growth of

5

Saccharomyces cerevisiae

(B) Candida pseudotropicalis

(C) Zymomonas mobilis

(D) Bracibacterium flavum

32. In fermentation, the inoculated media is incubated at

(A) 25°C for 24 hrs

(B) 26°C for 12 hrs

(C) 27°C for 6 hrs

28°C for 48 hrs

33. Who is introduced the somatic embryo genesis in callus, cultured on a semisolid medium?

(A) Cocking

(B) Michel

Rienert

(D) Steward

34. In \_\_\_\_\_ herbal medicinal preparations are more in demand than the pharmaceutical preparations

- 3
- Japan

(B) China

(C) Korea

(D) Germany

DJPH/19

×

- As per WHO guidelines on GMP for herbal medicines, the term 'Calibration' does NOT refer to the relationship between
  - (A) Known values of reference standard and values indicated by an instrument
  - (B) Known values of reference standard and values indicated by system of measuring
  - (C) Known values of reference standard and values represented by material measure
  - Known values and expected values
- 36. In residual solvent classification which is <u>NOT</u> the right / correct pair as per WHO guidelines for assessing quality of herbal medicines?

Benzene

- (A) Class 1 -
- Class 1 Hexane
- (C) Class 2 Methanol
- (D) Class 3 Ethanol
- 37. WHO recommended limits for lead in herbal medicines is
  - (A) 1 mg / kg (1 mg per kg)
- (B) 2 mg / kg (2 mg per kg)
- (C) 5 mg/kg (5 mg per kg)
- 10 mg / kg (10 mg per kg)
- 38. Chorismic acid is an intermediate in which of the following amine acid pairs from shikimic acid pathway?
  - (A) L Histidine and L Tyrosine
- (B) L-Phenyl alanine and L Alanine

- 0
- L Tyrosine and L Tryptophan
- (D) L-Tyrosine and L-Proline
- 39. Microbial contamination limits in herbal materials for internal use are prescribed. Select the limit which is WRONG from the following:
  - Echerichia coli, maximum 5 per gram
  - (B) Aerobic bacteria, maximum 107 per gram
  - (C) Yeaste and moulds, maximum 104 per gram
  - (D) Other enterobacteria, maximum 103 per gram
- 40. The most appropriate order (not necessity consecutive) in the biosynthesis of cholesterol is
  - Mevalonate → DMAPP → FPP → Squalene
  - (B) DMAPP → IPP → GPP → Farnesyl pyrophosphate
  - (C) Mevalonate → IPP → FPP → Geranyl pyrophosphate
  - (D)  $DMAPP \rightarrow FPP \rightarrow GPP \rightarrow Squalene$

46. Which of the following is not a registrable qualification as pharmacist?

(A) Diploma in pharmacy

(B) Bachelor of pharmacy

(C) Doctor of pharmacy

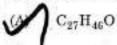
Degree in pharmaceutical chemistry

Turn over

54, U	nit of viscosity is		the second of the second
(J	V) Curie	on	Poises
((	2) Nanometer	(D)	Ohms
55. W	Thich of the following methods used to de	etermine	the nitrogen?
(A		0	Kjeldahl method
(0	Oxygen flask combustion method	(D)	Cryoscopic method
56. A	cetic anhydride is used in the preparatio	n of perc	chloric acid to render the mixture
V	Anhydrous -	(B)	Alkaline
(C	) Acidic	(D)	Neutral
57. TH			
	AND THE PROPERTY OF THE PROPER	5331	n a semi permeable membrane is known as
(A		(B)	Surface tension
(C	) Refractive index	W	Osmosis
58. —	reduction is carried out by h	eating th	he carbonyl compound with zinc amalgam
in	hydrochloric acid.		
V	Clemmensen	(B)	Brich
(0	Meerwin-Ponndrof	(D)	Boureault-Blanc reduction
V605 200			
	nich of the following compounds is the te		A second of the
(A)		(B)	Pyridoxine
0	Camphor	(D)	Cholesterol
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60. Molecular formula of cholesterol is



(B) C<sub>27</sub>H<sub>48</sub>

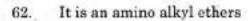
(C) C<sub>18</sub>H<sub>24</sub>O<sub>2</sub>

- (D) C<sub>30</sub>H<sub>50</sub>O<sub>3</sub>
- 61. \_\_\_\_\_ is used in the treatment of obstructive Jaundice.
  - (A) Vit. A

(B) Vit. D

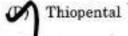
(C) Vit. E

Vit. K



- (A) Mepylamine Maleate
- (B) Thonzylamine hydrochloride
- Diptenhydramine Hydrochloride
- (D) Zolamine hydrochloride
- 63. It is a barbiturate sedatives.
  - (A) Glutethimide
  - (C) Quinazolone

(B) Methyprylon



- 64. Starting material for the synthesis of procaine hydrochloride is
  - (A) P-acetamino benzoic acid
  - (B) P-acetyl benzoic acid
  - P-amino benzoic acid
  - (D) P-nitro benzoic acid

Angio	otensin-II is a			
(A)	Carbohydrate	(B)	Eicosanoids	10 mg
(0)	Peptide	(D)	Cardenolide	3-775
٦,				
		100		
				The World was
20000		ntial adverse ei	fect of potassium spari	ng diuretics used as
	nypertensives.	-	MAES - DOA - 23	
(A)	Hypokalemia		Hyperkalemia	
(C)	Hypocalcemia	(D)	Hypercalcemia	
				1000000
	ntineoplastic agent acting by			ring is
(A)	Trimethoprim	(B)	Mercaptopurine	
ቃገ	Methotrexate	(D)	Folic acid.	
•				
Which infect	h one of the following sulpho tion?	namide drug is	used for treatment of v	arious urinary tract
(A)	Sulfadiazine	(B)	Dapsone	
S)	Sulfafurazole	(D)	Sulfa acetamide	
	lroxy triethylamine, which on	병원 이 이 이 경기를 열심히 보는 사람이 되었다면 하다.	(C. 2)	o benzoic acid and
(A)	Cyclomethycaine		Procaine	
(C)	Tetracaine	(D)	Eucaine	
			100 miles	
			0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	0 7.02 10 100022
with amm	ethylene diamine hydrochlo		st-butyl-2, 6-dimethyl p zated temperature with	지수 하는 사람들은 이번 그 아이들은 남자 그리고 있다고 있었다. 이글라 없는
(A)	Phenylpropanolamine	- w	Xylometazoline	
(C)	Naphazoline	- (D)	Oxymetazoline	
100000		30-7		

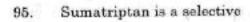
Previo	ous Year	Question Paper GPAT Drug Insp	oector Pharma	ncist DCO visit h	ttps://thepha	rmapedia.com/
71.	In III	spectroscopy, the sample cells	are made up	of		
	(A)	Metal	(B)	Poly styrene		
	(C)	Stainless steel	20	Quartz		T 0.00
	(~)				E3 . T	
4.						
72.	Comr	nonly used source of light in a U	V spectrophe	otometer is		
	(A)	Hydrogen discharge lamp	(B)	Mercury arc		
	(C)	Tungsten lamp		Deuterium lam		
					1	
	17					
			C	huamataeren hu	7	
73.		h is the most common mobile ph	(B)	Carbon diexide		
	(A)	Oxygen	(D)	Argon	. E. h	
	(C)	Eltane	~	Argon		
74.	The r	eversed phase TLC plates are p	roduced by in	npregnating silic	a plates with	
	(A)	water	(B)	chloroform		
	(C)	ether	<b>(70)</b>	liquid paraffin	14	
	3100	100/107-04 (7	2 2 3	10-21 10-26		2
						. Commence of the commence of
75.		H-NMR (PMR) spectra, the	e spin-spin	splitting patte er is each choice	rn for the	compounds
		l <sub>2</sub> -CHCl <sub>2</sub> is (the this is followed by second signa		it is each choice	to digital up	,
	1	2,3	(B)	3,5	2 40 -	
	(C)	3,4	(D)	4,3		
	(6)		455.	14 CONTRACT OF THE PARTY OF THE		
					19	
						_
76.	Fluor	rescence is favoured by molecule	s having			
	(A)	Flexibility				
	1	Rigidity				
	(C)	Long chain compounds				
	(TO)	Short chain compounds				

**Study Material** 

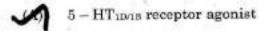
77.		h analytical technique us ductive medium (buffer) i		lytes based on their ability to move throug pplied electric field?	h
	(A)	Ion exchange chromatog	raphy 🕠	Electrophoresis	
	(C)	Super critical chromato	graphy (D)	Size exclusion chromatography	
			100		
78.	Whic	h absorbance property in	quantitative UV	spectroscopic analysis involving 2 or mor	'e
		ounds is used to estimate			
	S	Additivity	(B)	Diminicity	
	(C)	Multiplicity	(D)	Logarthmicity	
79.	7 7 7 2 2 2 2 2 2 2	h is the most importation own molecule?	nt information o	btained from 1H-NMR spectra regardin	g
	(A)	Elemental composite			
	S	Carbon – hydrogen – fra	me work of a orga	nic molecule	
	(C)	Molecular weight of a co	mpound		
	(D)	Functional group of a m	olecule		
	25				
80.	Dopa	mine receptor agonists is			
	S	Ropinirole	(B)	Selegiline	
	(C)	Tolcapone	(D)	Amantadine	
81.		tive serotomn (5-HT) re-u	iptake inhibitor is	Fluoxetine	
	(A)	Sulpiride	(D)	Pen fluridol	
	(C)	Raboxetine	(D)	Pen nuridoi	
				100	
82.	The	most common side effect o	f nitroglycerine is		
	(A)	Diarrhoea	M	Headache	
	(C)	Hypertension	(D)	Sedasion	
D ***	OTF/10		16		-

83.	When	n the action of one drug is facilitated	or incre	ased by the other drug, the phenomenon i
,	calle	d		
	5	Synergism	(B)	Antagonism
	(C)	Tolerance	(D)	Tachyphylaxis
î.	-			
84.	Ener	gy is required for the transport of dru	g by	
	(A)	Facilitated diffusion	(B)	Pinocytosis
	5	Active transport	(D)	Passive diffusion
1	•			
85.	Cell	mediated type of allergic reaction is		
	(A)	Type I reaction	(B)	Type II reaction
	(C)	Type III reaction	M	Type IV reaction
		400		
86.	All th	he following may be reasons for poor b	oioavail	ability EXCEPT
	(A)	High first pass metabolism		
	0	Enterohepatic cycling		
'nΫ́	(C)	Poorly soluable drug		
	(D)	Poor disintegration of the tablet		
		17 E		
		The state of the state of the		
87.	Pure	alpha two blocker is		
	(A)	Prazosim	(B)	Indoramim
Į.	(C)	Metaraminol	S	Yohimbine
			, ,	

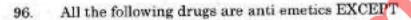
88.	The c	rug of choice in trigemeinal neura	dgia	
	S	Carbamazepine	(B)	Phenystoin
7.0	(C)	Sodium valproate	(D)	Ethosuximide
				4 1 1 4 2 2 3 3
	1			
	Mife	pristone is a		
	S	Anti progestin drug	(B)	Progesterone derivative
	(C)	Synthetic estrogen	(D)	Anti estrogen drug
		ollowing drugs are thiomide group		
	(A)	Thiourea	(B)	Propylthiouracil
	(C)	Carbimazole		Potassium perchlorate
				Mile yards to
	Grave	s's disease is associated with		
	(A)	Excessive secretion of adrenalin	6 7.	
	(B)	Excessive secretion of insulin		
	(C)	Excessive secretion of insulin		그렇다는 얼마나 다른다.
	- A	Excessive secretion of thyroid ho	was on oc	
	~1	Excessive secretion of thyroid no	rmones	
88	The d	rug which is an inhibitor of intest	inal α-glu	cosidases is
	(A)	Metformin	(B)	Meglitinides
	(OA	Miglitol	(D)	Glibenclamide
			202	
	The h	uman Insulin analogues are the f	ollowing E	XCEPT
	(A)	Lispro insulin		
	(B)	Aspart insulin		, te i juli juli džau
	(C)	Glargine insulin		
	S	Isophane insulin		



(C)



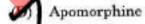
- 5 HT<sub>24/28</sub> receptor agonist (B)
- 5 HTabas receptor agonist · (C)
  - 5 HT<sub>4-7</sub> receptor agonist (D)



Metoclo pramide (A)

Promethazine (B)

Domperidone (C)



Which proton pump inhibitor shows maximum bioavailability? 97.

Ameprazole (A)

(B) Panta prazole

Lansoprazole

Rabe Prazole (D)

The cytotoxic drug which acts by inhibiting topoisomerase - 2 is 98.

- Topotecan (A)
- Etoposide
- Paclitaxel (C)
- Methotrexate (D)

19

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(C)

Ignition temperature

20

Melting point

Tonicity is one of the formulation parameter in which of a following dosage form (D) Large volume parentirals Emulsions (A) Oral Liquids Topical Preparations (C) For a drug to be therapeutically efficacious it should have lipid solubility some aqueous solubility (B) solubility in chloroform (C) solubility in alcohol (D) The unit for surface tension is 108. (B) dynes/cm dynes/cm (D) Dynes & cm Newton & Meter 1-12B value of O/W emulsifing agent 109. (B) 3 to 7 0 to 3 (A) (D) 26 to 28 8 to 18 The following methods are used for evaluation of suspensions except 110. (B) Electrokinetic method Sedimentation method (A) (D) Micromeritic method Sterilisation method

 What concentration of procaine hydrochloride will yield a solution iso-osmotic with blood plasma (Freezing of 1% procaine hydrochloride solution is -0.122°C)

(A) 6.25% W/V

(B) 5.25% W/V

Ø

4.26% W/V

(D) 3.38% W/V

w

117. Name the process by which the amount of active drug in the body is reduced after absorption into the systemic circulation

(A) First pass metabolism

(B) Distribution

(C) Metabolism

Elimination

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118.	Schie	k test is used to identify		
	S	Diptheria	· (B)	Percusis
	(C)	Typhoid	(D)	Jaundice
	1	N . 351 W . 155		* * *
119.	Bacte	erial exotoxins are		
	5	Protein in nature	(B)	Carbohydrate in nature
	(C)	Lipids in nature	(D)	Lipo polysaccharides in nature
120.	In th	e evaluation of disinfectants by Rid	lel Walker	test, the specified strain used is
	(A)	Streptomyces griseus	9	Salmonella typhi
	(C)	Streptomyces aureus	(D)	Streptomyces venezuelae
	(0)	Gareptoniyees nateur		
121.	Toxo	ids belong to the class of immunolo	gical prod	ucts which produce
	(A)	naturally acquired active immun		
	47.17			
	9	artificially stimulated active imm	nunity	
	(C)	naturally acquired passive immu	inity	
	(D)	artificially produced passive imm	nunity	
			Solovier (	200
122.	Whie	ch of the following is a combined va	ccine?	
	S	DPT vaccine	(B)	Hib vaccine
	(C)	Var vaccine	(D)	Hepatitis B vaccine
	()		-	

123.	Drug which gives orange colour when sprinkling on nitric acid is							
	(A)	Codeine	(B)	Papaverine				
		Morphine	(D)	Tropane alkaloid test				
					3.70			
124.	Fruit	t which are derived from the	plants umbellife	rrae are all the type				
	S	Cremo carp	(B)	Pericarp -				
	(C)	Epicarp	(D)	Mesocarp				
			40.4					
					<b>Y</b>			
125.	Whic	h of the following generally vation?	do NOT requi	re altitudes of 1000 meter	r or greater fo			
	(A)	Tea	(B)	Cinchona				
	(C)	Camphor	2	Clove				
			* 1					
126.	A soil	l is considered to be Poor whe	en the organic m	atter just falls below				
	(A)	0.1%	(00)	0.5%				
	(C)	2.0%	(D)	5.0%				
		40						
127.	Which	h of the following is an adult	erant of Senna?					
	(A)	cassia acutifolia	(B)	cassia angustifolia				
	5	cassia obovata	(D)	cassia marilandica				
	٠,							
			1.00					
128.	Which	h of the following is arranged	in the increasir	ng order of silica particle si	ze?			
	(A)	Sand, Gravel, Silt, Clay	(B)	Clay, Sand, Silt, Gravel				
	S	Clay, Silt, Sand, Gravel	(D)	Silt, Clay, Sand, Gravel				
	•							
	N							
129.	Which plant prefers light (sandy) and medium (loamy) and requires well - drained soil?							
	(A)	clove	(B)	coffee				
	(0)	tea	(D)	dioscorea				
	٠,							

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130.	is the tech	nique to produce	entire plant from si	ingle individual by a			
	sexual reproduction						
	(A) Biotransformation	(B)	Immobilization				
*5	(C) Somaclonal variation	M	Clonal propagation				
131.	cultures ar	e initiated from a	n explant of seedling	or other plant tissue			
	sources.						
	(A) shoot tip	(B)	sub				
	callus	(D)	suspension				
32.	At present, chrysanthemum ros	senm cultivation is	carried out mainly in	/			
	(A) Japan	(B)	Brazil				
	(Kenya	(D)	Yugoslavia				
33.	The seedlings and young plan	of Mentha pipe	rtia, treated with NA	A, gave an increased			
	yield of oil (A) 20-40%	160	30-50%				
	(C) 10-20%	(D)	20-30%				
34.	When a desired rate of growth	is maintained by a	djusting the levels of	nutrients by inflow of			
	fresh medium, it is known as						
	Chemostat	(B)	Turbidostat	19.			
	(C) Nutristat	(D)	Hydrostat				
		25		DJPH/19			
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Single cells can also be obtained from fresh plant organ 135. (A) Root Stem Seed (C) In surface sterilization of explant the tissue is washed with sterile water to remove Calcium hypochlorite Sodium hypochlorite Hydrogen peroxide (D) Silver nitrate Which is the 10 carbon units containing isoprenoid compound? 137.(A) Farnesyl pyrophosphate Geranyl pyrophosphate Isopentanyl pyrophosphate (C) (D) Geranyl pyrophosphate 138. Flavonoids are synthesized from which metabolic pathway? TCA cycle (A) (B) Mevalonic acid pathway Shikimic acid pathway Glycolysis (D) Which enzyme is involved in the conversion of Glutamic acid to  $\alpha$ -ketoglutarate? (A) Dehydrogenase Amino transferase Decarboxylase (C) (D) Carboxyl transferase

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140.	The leaves of digitalis lanata have ————————————————————————————————————			times greater activity than digitalis				
	(A)	3-5	(B)	3-6				
	0	3-4	(D)	3-7				
	٠,							
141.	Indol	e Acetic Acid (IAA) is a	tl	hat occurs naturally in plants				
	(A)	Cytokinin	(B)	Gibberellin				
	(C)	Growth Inhibitor	O	Auxin				
142.	Kelle	r – Killani test for mainly performer f	or					
	S	Digitoxose	(B)	Digitalose				
*	(C)	Digitoxin	(D)	Ditoxigenin				
143.	A vol	atile oil used as mosquito repellent is						
	5	Pyrethrum.oil	(B)	Lemon grass oil				
	(C)	Sandal wood oil	(D)	Rosemary oil				
144.	The	main functions of central drugs labora	tory is					
	W	To analyse drugs and cosmetics	(B)	To frame education regulations				
	(C)	To Advise the central government	(D)	To Advice the state government				
145.	The license issued for while sale of drugs other than those specified in schedule C, $C_1$ and X in form							
	(A)	20 A	W	20 B				
	(C)	21 A	(D)	21 B				
146.	Sche	dule 'P' of the drugs and cosmetic rule	es deals	with				
	(A)	Standard for cosmetics	V	Life periods of drugs				
	(C)	List of prescription drugs	(D)	Standards for disinfectant fluids				
			27	D IPU/IS				

#### Previous Year Question Paper GPAT Drug Inspector Pharmacist DCO visit https://thepharmapedia.com/ The duration of practical training for diploma in pharmacy is specified as (A) 100 hours 200 hours (C) 300 hours 500 hours The clinical trial details are given in 148. (A) Schedule A Schedule M (B) Schedule K (C) Schedule Y Which of the following laboratory/organization in the Apex Laboratory (the function of 149. Central Drugs Laboratory) for testing of oral polio vaccine? Pasteur institute of India, Cooner (B) Veterinary Research Institute, Izatnagar Central drugs laboratory (C) (D) Central drugs testing laboratory The minimum space requirement for retail sale licence of medicines including the medicine 150. specified in schedule C and C1 is (A) 10 sq. meter 15 sq. meter (C) 20 sq. meter 25 sq. meter 151. Which of the following officers is not designated as central licence approving authority? (A) Drugs Controller (India) (B) Joint Drugs Controller (India) (C) Deputy Drugs Controller (India) Assistant Drugs Controller (India) Which of the following amendment brought Ayurvedic (including Siddha) and unani drugs 152. under the control of Drugs and Cosmetics Act and Rules?

(A) Drugs rule (Amendment) Act 1945

Drugs and Cosmetics (Amendment) Act 1964

(C) Drugs and Cosmetics (Amendment) Act 1972

(D) Drugs (Amendment) Act 1962

- 156. Substance exists in more than one crystalline form are known as
  - (A) Isomorphous

W)

Polymorphism

(C) Enantiomers

- (D) Cis-trans isomers
- 157. consist in the addition of excess of a standard volumetric solution to a weighed amount of sample and determination of the excess (standard volumetric solution) not required by the sample.



Back titration

- (B) Blank titration
- (C) Direct titration
- (D) Precipitation titration

# Previous Year Question Paper GPAT Drug Inspector Pharmacist DCO visit https://thepharmapedia.com/ is the compound in which a sugar residue is linked from C-1 through Oxygen, 158. Nitrogen or Sulphur moiety. Carbohydrate Proteins (A) (C) Glycoside Fata Atropine alkaloid is an / a Alcohol (A) Acid (B) Ester Ketone (D) Sodium boro hydride, NaBH<sub>4</sub>, selectively reduces Aldehydes and Ketones Carboxylic acids (B) Alcohols (D) Esters have in common a per hydro-1, 2-cyclopentano phenanthrene nucleus. 161. Steroids (B) Alkaloids Amino acids (D) Proteins Volatile oil belongs to the category of 162. (A) Steroids Terpenes Alkaloids Fixed oils Terpenes have the molecular formula of 163.

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 $C_{10}H_{16}$ 

 $C_{20}H_{32}$ 

30

(B)

C15H24

 $C_{30}H_{50}$ 

U

31

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W

### Previous Year Question Paper GPAT Drug Inspector Pharmacist DCO visit https://thepharmapedia.com/ is synthesized by Grignard reaction of phenyl-2-pyridyl ketone with phenyl 170. magnesium bromide followed by catalytic reduction. Pipradrol Captodiame Hydroxyzine (D) Benactyzine is prepared by treating acetaldehyde with sulphur dioxide, hydrochloric acid or 171: zinc chloride. (A) Nitrazepam Paraldehyde (C) Methohexital sodium Chloral hydrate Interaction of aniline and acetic anhydride in the presence of sodium acetate yields. 172.(A) Phenacetin Acetanilide (C) Aspirin Paracetamol Type of sample required for analysing with gas chromatography (A) thermally stable volatile without decomposition non volatile substances (C) (D) non volatile acids Most commonly used adsorbent in column chromatography is 174.(A) Activated magnesia (B) Activated charcoal Fuller's earh (C) Silica gel

- 175. In standardisation of disoclium edetate mixture is used as indicator
  - (A) Mordant black II and solochrome black
  - (B) Mordant black II and methanol



Mordant black II and sodium chloride

- (D) Pyridine and methanol
- 176. Thermal detectors are commonly used detector in instruments
  - (A) NMR

(B) MARS



- (D) UV
- 177. Which of these equations in Ohm's law?
  - (A) A = abc

(B)  $\Delta E = E_G - E_1$ 

(C) A = ∈bc

- $I = \frac{V}{I}$
- 178. Revalues in paper chromatography are usually

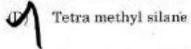


### Below 1

(B) Above 2

(C) 6

- (D) Above 5
- 179. The standard reference substance that is used universally for NMR spectroscopy in
  - (A) Tri methyl silane
  - (B) Tetra methyl methane
  - (C) Hexa methyl silane



# The half life of Digoxin is 30 min (B) 4 hours 40 hours (D) 7 days Quinidine acts as a 181. (A) Na channel opener Na Channel blocker Ca+2 channel opener (C) Ca<sup>+2</sup> channel blocker High ceiling diuretic is 182. Clopamide (A) Indapamide (B) Acetazolamide (C) **Forasemide** Example for tyrosine kinase receptor is 183. Insulin receptor (B) GABAA receptor (C) Acetylcholine receptor Steroid receptor (D)

The capacity of a drug to cause foetal abnormality is known as

(A) Carcinogenicity

Teratogenicity

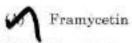
- (C) Mutagenicity
- (D) Photosensitivity

185.	The	predomina	nt muscarinic rece	ptor which n	nedi	ates vagal bra	dycardia is	
	(A)	$M_1$			M	$M_2$		Administration
	(C)	$M_3$		(	(D)	Mε		
			100					a
186.	Pirer	zepine pro	duces its action by	blocking wh	hich	type of recept	ors	
	(A)	$N_{\scriptscriptstyle M}$	1	F .		$N_N$		
	0	M		(	D)	$M_{\pi}$		
	~1	***1					- 12	2
187.	Assertion (A):		$\beta_2$ agonists are used in the treatment of hyperkalemic familial periodic paralysis.					
	Reason (R):		$\beta_2$ agonists enhance $K^+$ uptake into muscles					
	S	Both (A)	and (R) are true a	nd (R) is the	corr	ect reason for	(A)	
	(B)		and (R) are true b					
	(C)	(A) is tru	e but (R) is false					
	(D)	(A) is fals	e but (R) is true	9				
		1 7						265
188.	Cone	ider the fol	lowing statements		4			
100.		rtion (A) :	Clozapine is ar		stic.	drug which s	hows few ext	ra pyramidal
	Janae I	uon (A)	symptoms	. and position	>	at up	1011011011	pyromina.
	Reas	on (R):	Clozapine has a	potent 5HTs	ant	agonistic effec	t	
	(A)	Both (A)	and (R) are true a	nd (R) is the	corr	ect explanatio	n for (A)	
	2	Both (A)	and (R) are true b	ut (R) is not	the	correct explan	ation for (A)	
	(C)	(A) is tru	e but (R) is false					
	(D)	(R) is tru	e but (A) is false	W. and				
189.	Asse	rtion (A):	Painful procedu sodium anaeslad		arri	ed out under	the influence	of thiopentone
	Reas	on (R) :	Thiopentone sod	ium is a poo	r an	algesic		
	(A)	Both (A)	and (R) are true a	nd (R) is the	corr	ect reason for	(A)	
	(B)		and (R) are true b				0.25	
1	(C)	(A) is tru	e but (R) is false					
	M	(R) is tru	e but (A) is false					
	٠,							
190.	The	The contra indications to the use of morphine are the following EXCEPT						
150.	(A)		ory insufficiency	and the same of th	D)		ntricular failur	e ·
	(C)	Head inju	4	E .	D		acute abdomi	
	4-1	A	N. 1.	700960	Took !			
U				35				DJPH/19

**Study Material** 

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The amino glycoside which is too toxic for systemic use and hence used topically on the skin and eye is



(B) Amikacin

(C) Sisomicin (D) Tobramycin

192. The fourth generation cephalosporin is

> (A) Cefactor

Cefuroxime (B)

(C) Cefoxitin Cefepime

Which bacterial enzyme is inhibited by Fluro quinolone derivative? 193.



DNA gyrase

Folate synthase (B)

Topoisomerase II

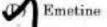
B lactamase

The following are luminal amoebicide drugs EXCEPT

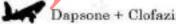
Diloxamide furoste (A)

(B) Iodoquinol

Tetracycline (C)



The WHO regimen for treatment of Lepromatous leprosy is



Dapsone + Clofazimine + Rifampicin

- (B) Dapsone + Rifampicin + Minocyclin
- (C) Dapsone + Ofloxacin + Clofazimine
- Dapsone + Ofloxacin + Clarithromycin (D)

- Peptic ulcer can be treated with 196.
  - (A) H<sub>1</sub> antagonists
  - (C) D<sub>2</sub> antagonist

H2 antagonists

5HT antagonist

Sodium Pico sulfate is a 197.



Stimulant laxative

- Osmotic laxative
- (C) Bulk laxative
- (D) Emollient laxative
- β-lactamase enzyme inactivates
  - (A) Sulphonamides
  - Tetracycline (C)

- Pencillins
- Streptomycin

Dapsone is used to treat



Leprosy

- - Typhoid

- (B) Malaria
- Cancer (D)
- Mercury poisoning can be treated with 200.
  - (A) Desferrioxamine
  - (B) Trientine
  - (C) Deferiprone

Dimercaprol