## 016/2025

Maximum: 100 marks

Time: 1 hour and 30 minutes

1.	Hilum of	the kidney lies in its :		
	(A)	Medial margin	(B)	Lateral margin
	(C)	Superior margin	(D)	Inferior margin
2.	The main	branch of left coronary artery is:		
	(A)	Sinu a trial nodal artery	(B)	Anterior interventricular artery
	(C)	Right marginal artery	(D)	Artery to AV node
3.	Name the	e safety muscle of tongue :		
	(A)	Genioglossus	(B)	Styloglossus
	(C)	Palatoglossus	(D)	Hyoglossus
4.	Which en	docrine gland secretes the hormone	calcitonir	n?
	(A)	Pancreas	(B)	Pineal gland
	(C)	Thyroid	(D)	Suprarenal gland
<b>5.</b>	Largest c	ell among white blood cell :		
	(A)	Neutrophil	(B)	Monocyte
	(C)	Basophil	(D)	Eosinophil
6.	The horm	one secreted by the cells of corpush	uteum :	
	(A)	Oestrogen	(B)	LH
	(C)	FSH	(D)	Progesterone
7.	Three par	rts of brain stem are :		
	(A)	Cerebrum, pons, cerebellum	(B)	Pons, medulla, cerebellum
	(C)	Pons, midbrain, cerebellum	(D)	Midbrain, pons, medulla
8.		anemia characterised by abnormal of vitamin $\mathrm{B}_{12}$ :	lly large c	ells of erythrocyte seris caused by
	(A)	Iron deficiency anemia	(B)	Megaloblastic anemia
	(C)	Sickle cell anemia	(D)	Hemophilia
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9.	The potential difference between the dispersion medium and the stationary layer of fluid attached to the dispersed particle is :					
	(A)	Stern potential	(B)	Zeta potential		
	(C)	Nernst potential	(D)	None of the above		
10.		y grams of 6% and 10% s cylic acid ointment?	alicylic acid ointme	ent are to be mixed to make 4 gms		
	(A)	$2~\mathrm{gm}$ of $6\%$ and $2~\mathrm{gm}$ of $1$	10% salicylic acid oi	intment		
	(B)	3  gm of  6%  and  1  gm of  1	10% salicylic acid o	intment		
	(C)	1  gm of  6%  and  3  gm of  1	10% salicylic acid oi	intment		
	(D)	None of the above				
11.	Which on	e among the following har	d gelatin capsule si	ze has the largest capacity?		
	(A)	0	(B)	3		
	(C)	1	(D)	2		
12.	In fluid m	echanics, if the Reynolds	number exceeds 40	00, the flow is considered as:		
	(A)	Laminar flow	(B)	Transition flow		
	(C)	Turbulent flow	(D)	None of the above		
13.	The sieve	number in which all parti	cles of fine powder	s must pass through is :		
	(A)	22	(B)	44		
	(C)	10	(D)	85		
14.	In size rec	duction, the mechanism of	combined impact a	and attrition is used in :		
	(A)	Roller Mill	(B)	Fluid Energy Mill		
	(C)	Hammer Mill	(D)	Pestle and Mortar		
15.		in minutes required to r sterilization process know		of viable microorganisms by 90%		
	(A)	Z value	(B)	D value		
	(C)	Both (A) and (B)	(D)	None of the above		
16.	The phar	macopoeial limit of disinte	gration time for an	effervescent tablet is:		
	(A)	15 minutes	(B)	30 minutes		
	(C)	5 minutes	(D)	3 minutes		

<b>17.</b>	If the blood cells are in contact with hypertonic solution, the cell wall may:					
	(A)	Shrink	(B)	Swell		
	(C)	Will retain its tone	(D)	None of the above		
18.	Time depe	endent dilatants behavior is kno	own as :			
	(A)	Rheopexy	(B)	Pseudoplastic flow		
	(C)	Newtonian flow	(D)	Plastic flow		
19.		he drug, which is structurally action, particularly useful in ch		pamine has a selective $oldsymbol{eta}_1$ receptor ve heart failure :		
	(A)	Fenoldopam	(B)	Duloxetine		
	(C)	Dobutamine	(D)	Dorsolamide		
20.		nergic agent used in urinary : I with lower urinary tract infect		Frequency, urgency and dysuria		
	(A)	Flavoxate	(B)	Drotaverine		
	(C)	Dicylomine	(D)	Pirenzipine		
21.	Name of 5	SHT1A receptor partial agonist	having antian	xiety effect :		
	(A)	Buprapion	(B)	Loxapine		
	(C)	Dxepine	(D)	Buspirone		
22.	Venlafaxi	ne, an antidepressant drug act	by:			
	(A)	Inhibit the uptake of serotoning	n and Dopami	ne		
	(B)	Inhibit the uptake of serotoning	n and Nor Adı	renaline		
	(C)	Selective inhibitor of 5HT				
	(D)	Inhibit Mono Amine Oxidase				
23.	A narcoti		ue of codein	e devoid of drug dependence or		
	(A)	Nefopam	(B)	Remifentanil		
	(C)	Tramadol	(D)	Diphenoxylate		
24.	Danzol is	:				
	(A)	Antigonadotropic agent	(B)	Antiestrogenic drug		
	(C)	Anabolic steroid	(D)	Antiandrogenic compound		

<b>25.</b>	Which one	e inhibit Leukotriene synthesis?				
	(A)	Montelukast	(B)	Sodium chromoglycate		
	(C)	Zileuton	(D)	Ketotifen		
26.	Mention o	one inhalational steroid used in Asthma	:			
	(A)	Deflezacort	(B)	Budesonide		
	(C)	Methyl Prednisolone	(D)	Betamethasone		
27.	Cilastatin	is:				
	(A)	Reversible inhibitor of Dehydropeptid	ase			
	(B)	Irreversible inhibitor of Dehydropepti	dase			
	(C)	Reversible inhibitor of Betalactamase				
	(D)	Irreversible inhibitor of Betalactamas	e			
28.	A Fibrino	lytic with fibrin non specific direct plass	ninog	en activator activity :		
	(A)	Streptokinase	(B)	Alteplace		
	(C)	Thromboplastin	(D)	Urokinase		
29.	Rifampici	n act by :				
	(A)	Inhibiting RNA dependent DNA polyr	neras	е		
	(B)	Stimulating RNA dependent DNA pol	ymera	ase		
	(C) Inhibiting DNA dependent RNA polymerase					
	(D)	Stimulating DNA dependent RNA pol	ymera	ase		
30.	Pyrimidine antimetabolite having anti fungal action:					
	(A)	Griseofulvin	(B)	Flucytosine		
	(C)	Mionozole	(D)	Capsofungin		
31.	Atazanav	ir is :				
	(A)	Non Nucleoside Reverse Transcriptas	e Inhi	bitor		
	(B)	Nucleoside Reverse Transcriptase Inh	ibitor			
	(C)	Retroviral protease inhibitor				
	(D)	Integrase inhibitor				
32.	Which dru	ag is used for the casual prophylaxis of	all spe	ecies of Malaria?		
	(A)	Chloroquine	(B)	Mefloquine		
	(C)	Proguanil	(D)	Primaquine		

33.	Name one luminal amoebicide which directly kills trophozoites:					
	(A)	Diloxanide furoate	(B)	Satranidazole		
	(C)	Emetine	(D)	Metronidazole		
34.	Topotecar	n is a :				
	(A)	Dihydrofolate reductase inhibitor	(B)	Topisomerase I inhibitor		
	(C)	Topisomerase II inhibitor	(D)	Neuraminidase inhibitor		
35.		e enzyme act as a catalyst for the con ate glucose (UDPG) in Glucogenesis?	version	of Glucose-1 phosphate to Uridine		
	(A)	Uridine diphosphate glucose pyroph	osphor	ylase		
	(B)	Glucosyltransferase				
	(C)	Hexokinase				
	(D)	Glucokinase				
36.	Orotic aci	d is formed in :				
	(A)	Urea cycle	(B)	$oldsymbol{eta}$ -oxidation		
	(C)	Pyrimidine Biosynthesis	(D)	HMP Shunt		
37.	Example	for glycogen storage disease :				
	(A)	MC Ardle's disease	(B)	Albinism		
	(C)	Xanthomatosis	(D)	Wilson's disease		
38.	Name the	e detector which is used in Gas chroma	atograp	hy:		
	(A)	Katharometer	(B)	Diode array detector		
	(C)	Single wave length detector	(D)	Refractive index detector		
39.	Absorptio	n of light in the visible and ultravio	olet regi	ions of the spectrum is due to the		
	(A)	Oscillator	(B)	Integrator		
	(C)	Recorder	(D)	Chromophore		
40.	Taut-Susj analysis :	pension galvanometer unit is used i	n whic	h type of instrumental method of		
	(A)	Nephlo-turbidimetry	(B)	IR Spectrophotometry		
	(C)	Flame photometer	(D)	Fluorimetry		
41.		ring present in Glimepride:				
	(A)	Furan	(B)	Pyrrolidine		
	(C)	Pyridine	(D)	Pyrrole		
•		_		0 - 0 - 0 - 0 - 0		

<b>42.</b>	42. Cephalexin comes under which generation of cephalosporins:			porins :
	(A)	Fourth generation	(B)	Second generation
	(C)	First generation	(D)	Third generation
43.	Dimenhyo	drinate is an example for :		
	(A)	Antihistaminics	(B)	Anticonvulsants
	(C)	Sedative and Hypnotics	(D)	Cholinesterase reactivators
44.	Name the	narcotic drug with low abuse potentia	al:	
	(A)	Morphine sulphate	(B)	Codeine
	(C)	Diphenoxylate hydrochloride	(D)	Fentanyl citrate
45.		income from drugs/cost of prescription or prescription": Name the above char	_	-
	(A)	Break-even point pricing	(B)	Cost-plus rate system
	(C)	Part inclusive rate system	(D)	Per diem drug charge system
46.	National <sub>J</sub>	programme for the control of blindness	s was i	ntroduced in which year?
	(A)	1976	(B)	1971
	(C)	1963	(D)	1989
47.	Which na wide?	tional programme was introduced to a	achieve	e 100% vaccination coverage nation
	(A)	Swachh Bharat	(B)	Poshan Abhiyan
	(C)	Mother's Absolute Affection (MAA)	(D)	Indradhanush
48.	The avera	age duration of the time between the lown as:	placing	g of an order and the receipt of the
	(A)	Reorder level	(B)	Buffer stock
	(C)	Lead time	(D)	Zero level
49.	Dipstick t	est is used to detect :		
	(A)	Malaria	(B)	Pneumonia
	(C)	Nipah	(D)	Cancer
<b>50</b> .	Abbreviat	e ICH :		
	(A)	Indian Council for Harmonisation		
	(B)	International Council for Harmonisa	tion	
	(C)	International Council for Homeopath	ny	
	(D)	Indian Council for Human Rights		

<b>51.</b>	Which is associated with Siddha system of medicine?						
	(A)	Veeram	(B)	Prakopa			
	(C)	Repertories	(D)	Yellow bile			
<b>52.</b>	Spirulina	contain:					
	(A)	Sapogenin	(B)	Withaferin			
	(C)	Gentianine	(D)	Phycocyanin			
<b>53.</b>	Which of	the following is obtained f	from Red algae?				
	(A)	Fimbrolide	(B)	Zonerol			
	(C)	Bromophakellin	(D)	Eledoisin			
<b>54.</b>	Glandula	r trichomes are present in	ι:				
	(A)	Nux vomica	(B)	Male fern			
	(C)	Vasaka	(D)	Datura			
<b>55.</b>	Which on	e of the following is used i	n irritable bowel sy	ndrome?			
	(A)	Reserveratrol	(B)	Boswellic acid			
	(C)	Wogonin	(D)	Shilajit			
<b>56.</b>	Which oil was used as the emollient in first cold cream?						
	(A)	Almond oil	(B)	Glycerine			
	(C)	Olive oil	(D)	Jojoba extract			
<b>57</b> .	Cotton fibres are separated from seeds by:						
	(A)	Ginning	(B)	Peeling			
	(C)	Plucking	(D)	Retting			
<b>58.</b>	The water	r insoluble part of Tragaca	anth:				
	(A)	Tragacanthin	(B)	Amylopectin			
	(C)	Amylose	(D)	Bassorin			
<b>59</b> .	Which of the following contains constituents used as insecticides?						
	(A)	Veratrum	(B)	Colchicum			
	(C)	Castor oil	(D)	Jute			
60.	Which of	the following is not a plan	at growth regulator?				
	(A)	Gibberellins	(B)	Abscisic acid			
	(C)	Ethylene	(D)	Acetylene			

<b>61.</b>	Gela	tin is	lacking the amino acid:		
		(A)	Methionine	(B)	Tryptophan
		(C)	Valine	(D)	Leucine
62.	Exai	mple	of ingestant allergen:		
		(A)	Penicillin	(B)	Wheat
		(C)	Liver extract	(D)	Asparagus
63.	Bado	ouins	test is for:		
		(A)	Olive oil	(B)	Castor oil
		(C)	Sesame oil	(D)	Arachis oil
64.	Whi	ch is t	the gelling agent used in tissue culture	e media	a?
		(A)	Tragacanth	(B)	Agar Agar
		(C)	Gum acacia	(D)	Dextran
65.	Whi	ch of	the following statements are true abou	ıt SN2	reaction?
	(i)	Abse	ence of rearrangement		
	(ii)	Favo	ored by aprotic solvents		
	(iii)	Ster	eo selective and stereo specific		
	(iv)	Und	ergo phase transfer catalysis		
		(A)	(i) and (iv) only	(B)	(i), (ii) and (iv) only
		(C)	(ii) and (iv) only	(D)	All
66.	Wea	k acio	d or base have different colors in ionize	ed and	unionized forms:
	The	fact i	s explained in		
		(A)	Gay Lussac's theory	(B)	Colloidal theory
		(C)	Ostwald's theory	(D)	Quinoid theory
67.	Whi	ch sta	tements are true about no bond reson	ance?	
	(i)	It is	a stabilizing effect		
	(ii)	It in	volves only pi electrons		
	(iii)	It in	volves the interaction of sigma and pi	orbital	[
	(iv)	It gi	ves more stability than resonance		
		(A)	Only (i) and (ii)	(B)	Only (iv)
		(C)	Only (i) and (iii)	(D)	All

	(A)	Nickel	(B)	Chromium
	(C)	Zinc	(D)	Copper
<b>69.</b>	What is so	pap clay?		
	(A)	$\mathrm{Al_2O_3.4SiO_2.H_2O}$	(B)	$3 \text{MgO.} 4 \text{SiO}_2.\text{H}_2 \text{O}$
	(C)	$\mathrm{Al_2O_3.2SiO_2.2H_2O}$	(D)	$2 {\rm MgO.3SiO_2.xH_2O}$
70.	In Reform	atsky reaction which metal is used as	the ca	talyst?
	(A)	Magnesium	(B)	Nickel
	(C)	Cadmium	(D)	Zinc
71.	Benzoic ac	cid is deactivated by which of the follo	wing g	roup?
	(A)	$-\operatorname{NO}_2$	(B)	ОН
	(C)	- Cl	(D)	$-\mathrm{SO_3R}$
72.	Which of	the following statement is wrong abou	ıt Thiop	ohene?
	(A)	Catalytic hydrogenation yields tetra	hydrot	hiophene
	(B)	Undergoes electrophilic substitution	reactio	ons at $2^{ m nd}$ position
	(C)	Can be prepared from open chain co	mpoun	d by ring closure
	(D)	Thiophene is considered as aromatic	compo	und
<b>73.</b>	A preferal	ole method of separation of enantiome	ers:	
	(A)	Salt formation	(B)	Mechanical separation
	(C)	Fractional distillation	(D)	Fractional crystallization
74.	Which of	the following is a triphenyl methane d	lerivati	ve?
	(A)	Methyl orange	(B)	Cresol red
	(C)	Malachite green	(D)	Xylenol orange
<b>75.</b>	Adulterat	ion of ghee can be analysed by :		
	(A)	Saponification value	(B)	Acid value
	(C)	Iodine value	(D)	Reichert Meissl value
<b>76.</b>	The produ	act of Claisen condensation :		
	(A)	Phenolic aldehyde	(B)	eta hydroxy aldehyde
	(C)	eta keto ester	(D)	lphaeta unsaturated acid

**68.** Which of the following elements form inert complex?

77.	The impor	rt and sale of Ethchlorvynol is regulated	d by:	
	(A)	Sch Y	(B)	Sch X
	(C)	Sch U	(D)	Sch V
<b>78.</b>	Pack size	of paediatric oral drops is:		
	(A)	3 ml	(B)	5 ml
	(C)	7 ml	(D)	9 ml
79.	The quan	tity of any single drug imported for peroses:	sonal	use must not exceed —
	(A)	50	(B)	100
	(C)	150	(D)	200
80.	Opium po	ppy can be cultivated only on behalf of tes of :	the ce	entral government in notified areas
	(A)	Madhya Pradesh	(B)	Uttar Pradesh
	(C)	Rajasthan	(D)	All of the above
81.	Inclusion	of indigenous system of medicine was r	ecomi	nended by :
	(A)	Mudaliar committee	(B)	Bhatia committee
	(C)	Hathi committee	(D)	Bhore committee
82.	Which is	not a permitted color?		
	(A)	Tartrazine	(B)	Rhodamine
	(C)	Resorcin brown	(D)	Indigo carmine
83.	Alcoholic	dutiable goods can be kept in a warehou	use fo	r a maximum period of :
	(A)	3 yrs	(B)	5 yrs
	(C)	7 yrs	(D)	10 yrs
84.	Which is	nonpatentable?		
	(A)	A new drug to treat cancer		
	(B)	A new method for water purification		
	(C)	A new method of agriculture or hortic	ulture	2
	(D)	All of the above		
85.	Schedule	T-A:		
	(A)	List of machinery, equipment and m of various categories of Ayurveda and		
	(B)	Good manufacturing practices for Ayu	ırveda	a, Siddha and Unani medicines
	(C)	Form of records of utilisation of raw n manufacturing units	nateri	al by Ayurveda, Siddha and Unani
	(D)	None of the above		

		(A)	The Pharmacy Act 1948					
		(B)	Drugs and Cosmetics Act 1	940				
		(C)	Medicinal and Toilet Prepa	ration Act 1955				
		(D)	None of the above					
87.	Valu	ue of p	percentage margin for calcula	ating ceiling pric	e of scheduled formulations :			
		(A)	4	(B)	8			
		(C)	12	(D)	16			
88.	The	centr	al information commission co	onsists of :				
	(i)	The	Chief Information Commissi	oner				
	(ii)	Lead	der of Opposition in the Lok S	Sabha				
	(iii)	A ca	binet minister to be nominat	ed by the Chief	Minister			
	(iv)	A U	nion cabinet minister to be n	ominated by the	Prime Minister			
		(A)	(ii), (iii), (iv)	(B)	(i), (ii), (iii)			
		(C)	(i), (ii), (iv)	(D)	(i), (iii), (iv)			
89.	In regard to particle size, the Wurster process is applicable to:							
		(A)	Macro Encapsulation	(B)	Micro Encapsulation			
		(C)	Both (A) and (B)	(D)	None of the above			
90.	Soft	drug	approach for ocular drug del	ivery involves :				
		(A)	Site specific action					
		(B)	Undergoes singular metabo	olic deactivation				
		(C)	Both (A) and (B)					
		(D)	None of the above					
91.	Sono	ophore	esis include :					
		(A)	Ultra sound based drug del	ivery				
		(B)	Short duration High voltag	e pulses based d	rug delivery			
		(C)	Applied electric potential be	ased drug delive	ery			
		(D)	All of the above					
92.	The	rmody	vnamically stable solubilized	systems are kno	own as :			
		(A)	Clear emulsions	(B)	Micro emulsions			
		(C)	Micellar micro emulsions	(D)	All of the above			

The Pharmacy Bill 2023 amends :

86.

93.	33. Loo-Riegelman method is useful for which of the following?			ring?
	(A)	One compartment model	(B)	Multi compartment model
	(C)	Mammillary model	(D)	All of the above
94.	Iodophore	contain which of the following?	)	
	(A)	Non ionic surfactant	(B)	Anionic surfactant
	(C)	Povidone	(D)	All of the above
95.	-	VHO guidelines identification at Senders Unit and not in Rece		lements of a process which are known as:
	(A)	Gap analysis	(B)	Design space
	(C)	In process control	(D)	Finished product
96.	Examples	of cross tabulation include which	ch of the follo	wing?
	(A)	Two way tables	(B)	Three way tables
	(C)	Manifold tables	(D)	All of the above
97.	Wilcoxon	signed rank test is better than v	which of the fo	ollowing?
	(A)	One sample test	(B)	Paired t-test
	(C)	Both (A) and (B)	(D)	None of the above
98.	Indicator	commonly used for Gaspak jar i	is:	
	(A)	Methylene blue	(B)	Indole red
	(C)	Safranin	(D)	Both (B) and (C)
99.	An examp	le of conductometric biosensor i	is:	
	(A)	Calorimetric biosensor	(B)	Urea biosensor
	(C)	Piezoelectric biosensor	(D)	Thermometric biosensor
100.	In the DN	A diagnostic test for tuberculos	is the Enzym	e used is :
	(A)	Luciferase	(B)	Urease
	(C)	Ligase	(D)	Both (A) and (B)

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## SPACE FOR ROUGH WORK

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