

SUB: Pharmacy (M.Pharm)

Time: 1 Hour 40 minutes

Instructions:

1. Ensure that all pages are printed.
2. Use Black ball pen only
3. Change in option is not allowed
4. There is no negative marking
5. Use of non-programmable scientific calculator is allowed

1.	Lecithin is mainly used parenterally as			
	A	Preservative	B	Suspending agent
	C	Antioxidant	D	Emulsifying agent
2.	Cap locking in the syrup bottles due to crystallization of sugar in the thread of the bottle neck can be prevented by addition of			
	A	Ethyl Cellulose	B	Cellulose acetate
	C	Sorbitol	D	Polyethylene
3.	World's first DNA vaccine launched in India against Covid-19 is			
	A	Sputnik V vaccine	B	ZyCov-D
	C	Covishield	D	Covaxin
4.	The AOAC Use-Dilution test is performed for the evaluation of			
	A	Efficacy of disinfectants against Salmonella, Staphylococcus, Pseudomonas	B	Effectiveness of steam in Steam sterilization
	C	Efficiency of Sterility testing	D	Potency of Antibiotics
5.	Whooping cough is caused by			
	A	Mycobacterium leprae	B	Monkey virus
	C	Bordetella pertussis	D	Covid virus
6.	The Schedule S of the Drugs and Cosmetics Rules is for			
	A	Standards for cosmetics	B	List of diseases which a drug may not claim to prevent or cure
	C	Requirement of factory premises	D	Life periods of drugs
7.	Following oil is injected in eye balls intraocular tamponade in vitreoretinal surgery			
	A	Ethyl Oleate	B	Silicone oil
	C	Olive oil	D	Arachis oil
8.	Emulsifying agent for the tropical o/w emulsion type lotion can be			

	A	Calcium stearate	B	Ammonium oleate
	C	Calcium palmitate	D	Magnesium laurate
9.	Which of the following is Not the included aspreformulation studies			
	A	<i>In-vitro</i> tablet disintegration test	B	Drug identification using DSC
	C	FTIR studies to study drug excipient interaction	D	Polymorphism study
10.	The following is used for flash point determination of propellant used in aerosols			
	A	Cascade Impactor	B	Open Cup Tag Apparatus
	C	Spray pattern determination	D	Flash extension test
11.	Quick-foaming shaving gels do not contain following propellant			
	A	Pentane	B	Tetrafluoroethane
	C	Diffluoroethane	D	Dimethylether
12.	If a conventional tablet is coated with Eudragit E 100, then			
	A	Drug will be released in stomach	B	Drug will be released in colon
	C	Drug will be released in duodenum	D	Drug will be released in jejunum
13.	Cellulose®, a directly compressed co-processed excipient contains			
	A	Lactose and colloidal silica powder	B	Mannitol and cellulose powder
	C	Lactose and MCC powder	D	Lactose and cellulose powder
14.	Polymorphs of a drug have same			
	A	Melting point	B	Solubility
	C	Molecular formula	D	Crystal habit
15.	Following is not the evaluation test for gelatin, used for production of soft gelatin capsule			
	A	Bloom strength	B	Limit test for Iron
	C	Microscopy of 6 % w/v gelatin solution	D	Viscosity
16.	In the spray congealing method for microsphere formulation, the rigidization takes place due to			
	A	Evaporation of solvent due to heated air	B	Cooling of the heated atomized liquid.
	C	Crosslinking of atomized polymer	D	All of the above
17.	The following is Not the example of superdisintegrant.			
	A	Low-substituted Hydroxy Propyl Cellulose	B	Crosspovidone
	C	Carmellose	D	Polacrillin Potassium
18.	Use of Benzalkonium Chloride in ophthalmic drops			

	A	Antioxidant	B	Drug stabilizer
	C	Sequestering agent	D	Preservative
19.	Time to reach steady state concentration, when the drug obeying one compartment model, is administered by IV infusion is dependent on			
	A	Elimination half life of the drug	B	Infusion Rate
	C	Volume of distribution	D	All of the above
20.	Sublingual route of administration is recommended when			
	A	Drug has very high hepatic extraction ratio.	B	Drug has very long Elimination half life.
	C	Drug has very high molecular weight.	D	Drug has high volume of distribution.
21.	Rate of elimination can be given as			
	A	K_E	B	$V_d \cdot C$
	C	$K_E \cdot V_d$	D	$K_E \cdot X$ (X=total drug inside the body at time t after absorption)
22.	Stoke is a unit of			
	A	Absolute viscosity	B	Dynamic viscosity
	C	Kinematic viscosity	D	Relative viscosity
23.	Ethylene oxide sterilization is also known as			
	A	Steam sterilization	B	Moist heat sterilization
	C	Tyndallization	D	Gaseous sterilization
24.	Powdered glass test is performed for			
	A	General purpose soda-lime glass	B	Treated soda-lime glass
	C	Regular soda-lime glass	D	Borosilicate glass
25.	The example of targeted drug delivery is			
	A	Floating tablet for systemic action	B	pH sensitive liposomes
	C	Sublingual drug delivery	D	Extended release tablet
26.	Which indicator used in complexometric titration?			
	A	Phenolphthalein	B	Murexide
	C	Methyl orange	D	Methyl red
27.	Which compound gives bromine solution in CS_2 decolorization test?			
	A	Acetylene	B	Ethan
	C	Cyclohexane	D	Propane

28.	Find the correct order of λ_{\max} for $n \rightarrow \sigma$ transition?			
	A	R-OH > R-NH ₂ > R-SH	B	R-OH > R-SH > R-NH ₂
	C	R-OH < R-NH ₂ < R-SH	D	R-SH > R-OH > R-NH ₂
29.	Which of the following absorbent commonly used in column chromatography?			
	A	Activated magnesia	B	Charcoal
	C	Silica gel	D	Fuller's each
30.	Which is neither an acid nor base?			
	A	CH ₃ COOH	B	CH ₃ OH
	C	HCl	D	NaCl
31.	Which of the following statin has Indole moiety in its structure?			
	A	Atorvastatin	B	Fluvastatin
	C	Cerivastatin	D	Pravastatin
32.	Clindamycin palmitate ester prodrug produce for			
	A	Improving taste	B	Decreasing disintegration time
	C	Increasing dissolution	D	Increasing half life
33.	What are the number of stereoisomers in glucose?			
	A	4	B	10
	C	16	D	8
34.	Which disease decreases Glucose tolerance?			
	A	Diabetes mellitus	B	Hypertension
	C	Hyperthyroidism	D	Hypopituitarism
35.	One of the following drugs of choice in ringworm infections.			
	A	Ketoconazole	B	Nystatin
	C	Amphotericin	D	Albendazole
36.	All type of allergic reaction mediated by,			
	A	IgE	B	IgA
	C	IgG	D	IgM
37.	Which syndrome occur when vitamin B1 deficiency shows?			

	A	Cheilosis	B	Beriberi
	C	Pellagra	D	Ricket
38.	Tesla is a unit of			
	A	Pressure	B	Voltage
	C	Magnetic field strength	D	Viscosity
39.	Which of the following anti-arrhythmic drug is having Iodine?			
	A	Amiodarone	B	Disopyramide
	C	Quinidine	D	Propafenone
40.	Which antipsychotic drug shows Phenothiazine derivatives?			
	A	Thiothixene	B	Haloperidol
	C	Chlorpromazine	D	Clozapine
41.	Which diuretic agent having benzothiadiazide ring system?			
	A	Diazepam	B	Aldosterone
	C	Furosemide	D	Hydrochlorothiazide
42.	Which is Natural antibiotic?			
	A	Penicillin G	B	Azithromycin
	C	Chloramphenicol	D	Clindamycin
43.	One of the following is selective β_1 blocker			
	A	Propranolol	B	Atenolol
	C	Sotalol	D	Timolol
44.	One of the following H ₂ antagonist contains furan ring			
	A	Cimetidine	B	Famotidine
	C	Ranitidine	D	Nizatidine
45.	Which of the following side effect of ACE inhibitors except			
	A	Dry cough	B	Ankle oedema
	C	Heavy proteinuria	D	Reversible renal failure
46.	All functional groups decrease fluorescence except			
	A	NO ₂	B	Bromine
	C	COOH	D	NH ₂
47.	All are solvent used in H-NMR except			
	A	DMSO	B	CS ₂
	C	CCl ₄	D	Chloroform

48.	Co-trimoxazole is the combination of trimethoprim with			
	A	Sulphisoxazol	B	Sulphadiazine
	C	Sulphamethoxazole	D	Proguanil
49.	Mechanism of streptomycin is			
	A	Inhibition of cell wall synthesis	B	Inhibition of protein synthesis
	C	Inhibition of DNA synthesis	D	Inhibition of cell permeability
50.	Which of the following anti-malarial is not belongs to 8-aminoquinolines class?			
	A	Primaquine	B	Pamaquine
	C	Isopentaquine	D	Mefloquine
51.	Following is aexample of drug used in treatment of alcohol dependence			
	A	Naloxone	B	Naltrexone
	C	Lofexidine	D	Disulfiram
52.	Aspirin Ionization is _____ at alkaline pH compare to 7 pH.			
	A	less	B	more
	C	same	D	none of above
53.	To minimized bias in Clinical trials follow			
	A	Randomization	B	Double-Blind study
	C	Rigorous follow-up and ascertainment of outcomes	D	All of above
54.	In Bioassay of Insulin following Lab animals can use			
	A	Mice	B	Rats
	C	Rabbits	D	All of above
55.	In Drug distribution, plasma compartment is approximately ____ %			
	A	2 %	B	5 %
	C	16 %	D	20%
56.	Cortisone is _____ of hydrocortisone			
	A	Prodrug	B	Active drug
	C	Toxic metabolite	D	No relation
57.	50-75% of drug are excreted unchanged in the urine. _____			
	A	Furosemide	B	Gentamicin
	C	Methotrexate	D	All above

58.	In premature newborn babies, antibiotic Gentamicin plasma half-life is			
	A	18 hrs	B	10 hrs
	C	4 hrs	D	1 hr
59.	In Eye Ciliary muscles having β_2 (Beta2) Adrenoceptor parasympathetic effect is			
	A	Relaxation	B	Contraction
	C	Dilatation	D	Constriction
60.	Below is consider as short acting anticholinesterase			
	A	Edrophonium	B	Neostigmine
	C	Physostigmine	D	Ecothiophate
61.	Drug is used during acute migraine attack			
	A	Aspirin	B	Paracetamol
	C	Sumatriptan	D	All above
62.	Below antidysrhythmic drug (Vaughan Williams classification) do not show mechanism by sodium channel block			
	A	Propranolol	B	Disopyramide
	C	Lidocaine	D	Flecainide
63.	Following drug/s used in dyslipidemia act as by activate PPAR α receptors			
	A	Gemfibrozil	B	Ezetimibe
	C	Simvastatin	D	all above
64.	Following is antifibrinolytic agent			
	A	Heparin	B	Hirudin
	C	Warfarin	D	Tranexamic acid
65.	Following drug can use in systemic lupus erythematosus (SLE) indication			
	A	Chloroquine	B	Methotrexate
	C	Cyclophosphamide	D	Azathioprine
66.	Following drug is used in treatment of obesity act as lipase inhibitor			
	A	Sibutramine	B	Orlistat
	C	Rimonabant	D	Contrave
67.	Following is NMDA receptor antagonists class drug use in dementia			
	A	Galantamine	B	Donepezil
	C	Memantine	D	Rivastigmine
68.	Following antipsychotic agent suggest No weight Gain			
	A	Clozapine	B	Quetiapine

	C	Risperidone	D	Aripiprazole
69.	Following drug is choice as short acting bronchodilator			
	A	Salmeterol	B	Formoterol
	C	Salbutamol	D	None of above
70.	Following is not class from D2 receptors			
	A	Domperidone	B	Ondansetron
	C	Haloperidol	D	Metoclopramide
71.	Following drug is example of Potassium sparing diuretics			
	A	Furosemide	B	Spironolactone
	C	Hydrochlorothiazide	D	all above
72.	Antibacterial Ceftriaxone is given in combination with			
	A	Tazobactam	B	Clavulanic Acid
	C	Sulbactam	D	None of above
73.	Below Non-stored mediator/s, released by increased Ca^{2+}			
	A	Prostanoids	B	Nitric oxide
	C	Endocannabinoids	D	all above
74.	Following drug as antidiabetic agent, effect by promote urinary excretion of glucose			
	A	Metformin	B	Empagliflozin
	C	Sitagliptins	D	Glibenclamide
75.	Following is gram positive pathogenic bacteria			
	A	S. pneumoniae	B	H. pylori
	C	E. coli	D	H. influenzae
76.	The first person who attempted to culture the plant tissues in vitro was			
	A	Haberlandt	B	Theodor Schwann
	C	White	D	Gautheret
77.	During the single cell culture growth, exponential phase is characterized by			
	A	Exposure of cell to fresh medium where cell starts to divide	B	Decrease in the cell division
	C	Rapid cell multiplication	D	None of these
78.	Caffeine and Ephedrine, respectively can be referred as			
	A	True alkaloid and pseudo alkaloid	B	Proto alkaloid and pseudo alkaloid
	C	Pseudo alkaloid and proto alkaloid	D	True alkaloid and proto alkaloid

79.	Synonym of Colchicum is			
	A	Ma-Huang	B	Meadow saffron
	C	Thorn apple	D	Periwinkle
80.	Cystolith is an important identifying microscopical character of			
	A	Atropa belladonna leaf	B	Cassia angustifolia leaf
	C	Digitalis purpurea leaf	D	Adhatodavasica leaf
81.	The test used for identification of Flavonoids is			
	A	Shinoda test	B	Murexide test
	C	Dragendorff's Test	D	Borntrager's test
82.	Khellin is an active constituent of			
	A	Ammivisnaga	B	Tribulusterrestis
	C	Myristicafragrans	D	Ocimum sanctum
83.	Limonene is			
	A	Acyclic monoterpene	B	Monocyclic sesquiterpene
	C	Monocyclic monoterpene	D	Acyclic sesquiterpene
84.	Squalene is a precursor for biosynthesis of all of following phytoconstituents except			
	A	Diosgenin	B	Oleanolic acid
	C	Solanidine	D	Zingiberene
85.	Forskolin is a			
	A	Sesquiterpene	B	Diterpene
	C	Triterpene	D	Tetraterpene
86.	Murexide test is the specific test to detect			
	A	Purine alkaloids	B	Opium alkaloids
	C	Tropane alkaloids	D	Ergot alkaloids
87.	Ferulic acid present in asafoetida on treatment with HCl produces			
	A	Stearic acid	B	Oleic acid

	C	Umbellic acid	D	Palmitic acid
88.	In Eucalyptus, volatile oil is present in _____ passage.			
	A	Schizogenous	B	Lysigenous
	C	Schizolysigenous	D	Endogenous
89.	Javantri is the _____ of <i>Myristicafragrans</i> .			
	A	Seed	B	Leaf
	C	Arillus	D	Kernel
90.	One of the following is not a physical method of evaluation.			
	A	Swelling index	B	Extractive value
	C	Foaming index	D	Lycopodium spore method
91.	Lignan containing natural anticancer drug is			
	A	Podophyllumpeltatum	B	Catharanthusroseus
	C	Colchicum autumnale	D	Taxusbrevifolia
92.	Chemically Libermann–Burchard’s reagent is			
	A	Acetic acid and Conc. H ₂ SO ₄	B	Acetic anhydride and Conc. H ₂ SO ₄
	C	Acetic anhydride and Conc. HCl	D	None of these
93.	Anomocytic and paracytic stomata are characteristic feature of _____ and _____ respectively.			
	A	Digitalis and Senna	B	Senna and digitalis
	C	Mentha and Eucalyptus	D	Mentha and digitalis
94.	_____ is considered as valuable nutraceutical.			
	A	Spirulina	B	Senna
	C	Vinca	D	Vasaka
95.	Sandalwood oil is a volatile oil containing _____.			
	A	Sesquiterpene	B	Monoterpene
	C	Triterpene	D	Diterpene
96.	Liquiritin and isoliquiritin are chemically _____.			

	A	Steroidal glycosides	B	Triterpenoidal glycoside
	C	Flavonoid glycosides	D	Coumarin glycoside
97.	Palisade ratio is			
	A	Average number of palisade cells beneath each epidermal cell	B	Average number of palisade cells beneath each vein islet
	C	Average number of palisade cells in 1 square millimeter area	D	None of these
98.	Pale catechu is differentiated from black catechu on the basis of			
	A	Vanillin-HCl test	B	Chlorophyll test
	C	FeCl ₃ test	D	Match stick test
99.	3-methoxy morphine is majorly used as			
	A	Central analgesic	B	Skeletal muscle relaxant
	C	Anti-tussive	D	None of these
100.	Sesquiterpenes are biogenetically derived from			
	A	Farnesyl pyrophosphate	B	Geranylgeranyl pyrophosphate
	C	Squalene	D	None of these