DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

Test Booklet Series



TEST BOOKLET DRUG INSPECTOR

T. B. C. : DI – 2022/23

SI. No.

Time Allowed: 3 Hours

Maximum Marks: 200

: INSTRUCTIONS TO CANDIDATES :

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
- ENCODE CLEARLY THE TEST BOOKLET SERIES A, B, C OR D, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
- You have to enter your Roll No. on the Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- 4. YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY, WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.
- 5. This Test Booklet contains 200 items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose ONLY ONE response (answer) for each item (question).
- You have to mark (darken) all your responses (answers) ONLY on the separate Answer Sheet provided, by using BALL POINT PEN (BLUE OR BLACK). See instructions in the Answer Sheet.
- All items (questions) carry equal marks. All items (questions) are compulsory. Your total
 marks will depend only on the number of correct responses (answers) marked by you in
 the Answer Sheet. For each wrong response (answer), 0.25 marks shall be deducted
 from the marks awarded for correct answers.
- Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your Admission Certificate.
- After you have completed filling in all your responses (answers) on the Answer Sheet and after
 conclusion of the examination, you should hand over to the Invigilator the Answer Sheet issued
 to you. You are allowed to take with you the candidate's copy / second page of the Answer
 Sheet along with the Test Booklet, after completion of the examination, for your reference.
- 10. Sheets for rough work are appended in the Test Booklet at the end.

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LB – 1A/26 (Turn over)

- An example of heteroaromatic compound:
 - (A) Tetrahydrofuran
 - (B) Pyrrole
 - (C) Pyrrolidine
 - (D) Piperidine
- Find the odd pair :
 - (A) Topioisomerase II Etoposide
 - (B) Topioisomerase II Teniposide
 - (C) Topioisomerase I Irinotecan
 - (D) Topioisomerase III Topotecan
- Cellular mechanism of resistance to methotrexate is by :
 - (A) Reduced drug transport
 - (B) Increased polyglutamate formation
 - (C) Increased level of dihydrofolate reductase
 - (D) Both (A) and (C)
- 4. Most intravenous general anaesthetic agents act predominantly through:
 - (A) 5-HT receptor
 - (B) Dopamine receptor
 - (C) GABAA receptor
 - (D) α receptor
- Ingestion of organophosphates can cause salivation, lacrimation and diarrhoea due to inhibition of :
 - (A) Butyrylcholinesterase
 - (B) Acetylcholinesterase

- (C) Tryosine hydroxylase
- (D) Monoamine oxidase
- Octreotide is a :
 - (A) Somatostatin analogue
 - (B) Dopamine receptor antagonist
 - (C) Growth hormone antagonist
 - (D) Gonadotrophin releasing hormone agonist
- A transesterification reaction is:
 - (A) Exchange of alkyl group of alcohol with organic group of an ester
 - (B) Exchange of alkyl group of ester with organic group of an eter
 - (C) Exchange of alkyl group of ester with organic group of an alcohol
 - (D) Exchange of alkyl group of ester with organic group of an alkane
- 8. Reduction of nitroalkanes yield:
 - (A) Amines
 - (B) Carboxylic acids
 - (C) Diazo compounds
 - (D) Alcohols
- 9. Which of the following is neither an acid nor a base?
 - (A) KCI
 - (B) CH₃OH
 - (C) CH3COOH
 - (D) CH3OCH3

LB - 1A/26

(2)

Contd.

10.	Correct	order	of	nucleophilicity	
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- (A) CI < Br < I
- (B) Br < Cl < I
- (C) | < Br < C|
- (D) F < CF < Br
- 11. Which of the following pairs of receptors are likely to show the greatest structural similarity?
 - (A) The dopamine receptor subtypes of D3 and D5
 - (B) The M2 muscarinic recrptor and the β2-adrenergic receptor
 - (C) The H2 histamine receptor and the α1-adrenoceptor
 - (D) The H1 histamine receptor and the β2-adrenoceptor
- 12. What are the two main targets currently used in anti-HIV therapy?
 - (A) Reverse transcriptase and protease
 - (B) Reverse transcriptase and integrase
 - (C) Protease and integrase
 - (D) he viral glycoproteins gp120 and gp41
- 13. Which of the following Fermentation Processes is used in the production of Penicillin?
 - (A) Aerobic fermentation followed by anaerobic fermentation
 - (B) Anaerobic fermentation

- (C) Aerobic fermentation
- (D) Anaerobic fermentation followed by aerobic fermentation
- 14. The following chemical moiety is the core motif of the drugs:
 - (A) Nalidixic acid
 - (B) Mefenamic acid
 - (C) Isoniazid
 - (D) Tetracycline
- 15. What plays a major role in extrahepatic metabolism and contains CYP3A4 isozyme and P-glycoprotein?
 - (A) Kidney
 - (B) Intestine
 - (C) Pancreas
 - (D) Liver
- 16. Which of the following is an antiarrhythmic drug that is a calcium channel blocker?
 - (A) Lidocaine
 - (B) Nitroglycerin
 - (C) Nefedipine
 - (D) Diltiazem
- Atropine can be synthesized from :
 - (A) . Tropine
 - (B) Tropic acid
 - (C) Both (A) and (C)
 - (D) None of these

(Turn over)

18. 2-hydroxy-5, 9-dimethyl-6, Strongly electrophile (B) 7-benzomorphane derivative is: (C) Weakly nucleophilic (A) Pentazocine (D) Strongly nucleophilic (B) Hydrocodone A MAO-B inhibitor is : (C) Cedeine (A) Selegiline (D) Buprenorphine (B) Dopamine A prodrug of terbutaline is: (C) Adrenaline Zafirlukast (A) Isoprenaline Salmeterol (B) 25. A drug which undergoes significant (C) Bambuterol first pass metabolism is: (D) Nedocromil sodium (A) Propranolol 20. The selective COX-2 inhibitor is : (B) Mercaptopurine (A) Ketorolac (C) Nitroglycerin (B) Rofecoxib (D) All of these (C) Indomethacin (D) Naproxen Gelatin used in manufacture of 26. capsules is obtained from collagen Sumatriptan contains all but : by: (A) Indole (A) Hydrolysis (B) Sulfonamide (B) Decarboxylation Tertiary amine (C) Alcohol functional group (C) Acetylation (D) Conjugation 22. One of the following is not a systemic corticosteroid 27. Select the equation that gives the rate (A) Budosenide of drug dissolution from a tablet: (B) Dexamethasone (A) Fick's law (C) Methylprednisolone (B) Henderson Hasselbatch (D) Triamicolone equation Diazonium ions are : (C) Noyes Whitney equation (A) Weakly electrophile (D) Michelis Menten equation LB - 1A/26 (4) Contd.

28.	A drug solution of 300 μg/ml was				
	stored in a shelf and after 30 days its				
	concentration was assayed to be				
	100 μg/ml. The half life of degra-				
	dation of the drugs is :				

- (A) 25 days
- (B) 19 days
- (C) 15 days
- (D) 3 days
- 29. One of the following does not improve the solubility of a drug:
 - (A) Complexation
 - (B) Addition of surfactant
 - (C) Micronization
 - (D) Addition of anti-solvent
- 30. If the Carr's index of a power is 10% then the type of power flow is:
 - (A) Poor
 - (B) Excellent
 - (C) Very poor
 - (D) Good
- 31. In the preparation of small pox vaccine the drying process used is:
 - (A) Spray drying
 - (B) Vacuum drying
 - (C) Drum drying
 - (D) Freeze drying
- 32. The phenomenon of increasing the solubility of weak electrolytes and non-polar molecules by the addition of a water miscible solvent in which the drug has good solubility is called:
 - (A) Complexation

- (B) Cosolvency
- (C) Solubilization
- (D) Hydrotrophy
- Viscosity of liquid _____ with rise in temperature.
 - (A) Increases
 - (B) Decreases
 - (C) Remains constant
 - (D) Is independent
- 34. Semisolid preparations for external application that differ from similar products in containing a high proportion of finely powdered medicaments:
 - (A) Ointment
 - (B) Paste
 - (C) Gel
 - (D) Cream
- 35. Which base is likely to be most occlusive on the skin?
 - (A) Hydrocarbon base
 - (B) Absorption base
 - (C) Emulsion base
 - (D) Water-soluble base
- 36. Specific gravity of syrup is :
 - (A) 1.8
 - (B) 1.3
 - (C) 1.5
 - (D) 3.1

LB – 1A/26 (5) (Turn over)

- 37. Which of the following polyols used as humectants in creams?
 - (A) Glycerine
 - (B) Propylene glycol
 - (C) Sorbitol 70%
 - (D) All of these
- 38. Which of the following is most commonly used suppository base?
 - (A) Cocoa butter
 - (B) PEG 1000
 - (C) PEG + Hexanetriol
 - (D) None of these
- 39. If the urine pH increases then:
 - (A) Excretion of weakly basic drugs increase
 - (B) Excretion of weakly acidic drugs increase
 - (C) Excretion of non-polar drugs increase
 - (D) Excretion of any type of drugs remain unaffected
- 40. What is true about intramuscular route of administration?
 - (A) Only aqueous solutions can be injected
 - (B) Volumes in the range of 2-3 ml are generally administered
 - (C) The formulations need not be completely sterilized
 - (D) Hypertonic and not hypotonic solutions can be administered

- While developing a new formulation excipient should be selected from :
 - (A) Cambridge crystallographic database
 - (B) Spectroscopy databases
 - (C) Inactive ingredients database
 - (D) Pharmacopoeal databases
- 42. The following methods are used for evaluation of suspension except:
 - (A) Sedimentation
 - (B) Electrokinetic
 - (C) Micromeritic
 - (D) Sterilization
- 43. USP type I glass is:
 - (A) Highly resistant borosilicate glass
 - (B) Treated soda lime glass
 - (C) Soda lime glass
 - (D) Potassium-lithium augmented glass
- 44. Water for injection is stored in industries by holding at:
 - (A) 80 degree Celsius
 - (B) 60 degree Celsius
 - (C) 100 degree Celsius
 - (D) 4 degree Celsius
- 45. In the preparation of calamine lotion, sodium citrate is used as :
 - (A) Suspending agent
 - (B) Solubilizer
 - (C) Buffering agent
 - (D) Bacteriostatic

LB – 1A/26 (6) Contd.

- 46. The net movement of molecules from the region of higher concentration to lower concentration is termed as:
 - (A) Osmosis
 - (B) Diffussion
 - (C) Bulk flow
 - (D) Passive transport
 - 47. Which of the following is applicable. while assessing the absolute bioavailability of a drug?
 - (A) It must be one or less than one
 - (B) It is independent of the route of administration
 - (C) It is independent of the systemic clearance
 - (D) All of these
 - 48. Which one of the following statement is CORRECT?
 - (A) Prodrugs are always NCE, cannot be considered for biowaivers.
 - (B) New prodrugs of an existing drug is never a new entity, always considered for biowaiver.
 - (C) A new prodrug can be considered for biowaivers based on certain conditions.
 - (D) None of these
 - 49. For tablets made by direct compression, powder filled capsules the dissolution apparatus mostly preferred is:
 - (A) Paddle Apparatus

- (B) Basket Apparatus
- (C) Paddle over disk Apparatus
- (D) Reciprocating Holder Apparatus
- 50. According to the pH-partition hypothesis which one of the given options doesn't govern the absorption?
 - (A) The molecular size of the drug
 - (B) pH at the absorption site
 - (C) Lipid solubility of unionized drugs
 - (D) Dissociation constant
- 51. True alkaloids are present in plants as:
 - (A) Salts of inorganic acid
 - (B) Salts of organic acid
 - (C) Salts of meconic acid
 - (D) Salts of benzoic acid
- 52. Ajmaline is an _
 - (A) Anti-arrhythmic
 - (B) Anti-malarial
 - (C) Anti-diabetic
 - (D) Anti-tumor
- 53. Colchicum belong to the family of
 - (A) Lilliaceae
 - (B) Ranunculaceae
 - (C) Leguminosea
 - (D) Aracaliaceae

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(Turn over)

54.	Dra	gondrof reagent with Alkaloid	https:/p S	harma	ecyindia (B)	Ginseng
	give				(C)	Brahmi
	(A)	Raddish brown ppt			(D)	Fenugreek
	(B)	Reddish orange ppt		60.	Cha	cosidos is Sanaa are mainly:
	(C)	Orange ppt	- 4	00.		cosides is Senna are mainly:
	(D)	Orange brown ppt			(A)	O-Glycoside
55.		of the following is not ar	1		(B)	C-Glycoside
		inized drug:			(C)	N-Glycoside
	(A)	Leaf of senna			(D)	S-Glucoside
	(B)	Bark of cinnamon		61.	Whi	ch of the following drug contains
	(C)	Seeds of coriander				ne of the highest isoflavones?
	(D)	Juice of Aloe			(A)	Soyabean
56.	1	is an proto alkaloid.			(B)	Orange peel
	(A)	Taxol			(C)	Lemon peel
	(B)	Atropine		-	(D)	Psoralea
	(C)	Caffiene			(0)	rsoralea
	(D)	All of these		62.	Fam	illy of Vinca is :
57.	Ane	xample of pseudo alkaloid:	-	-	(A)	Rubiaceae
	(A)	Caffiene			(B)	Solanaceae
	(B)	Hygrine		4	(C)	Apocynaceae
	(C)	Arecoline			(D)	Erythroxylaceae
	(D)	Lobeline		63.	Door	veratrol is :
58.	The moisture content in digitalis			03.		
	shou	ild not be more than:			(A)	Alkaloid
	(A)	5%			(B)	Flavonoid
	(B)	8%			(C)	Saponin
	(C)	10%			(D)	Terpene
ngineo.		(D) 15%		64.	Andrographis paniculata is used	
59.	Which of the following saponin containing drug is used as anti- diabetic?				(A)	Hepatoprotective agent
					(B)	Antiasthmatic agent
	(A) Liquorice				(C)	Immunomodulator
	6.4				(D)	Both (A) and (C)
LP	- 1A/2		(0)			
LD-	INZ		(8)			Contd.

Visit: https:/pharmacyindia.co.in s contain 70. St. John's Wart is the common name 65. Which of the following plants contain of: drug at its bark for curing heart (A) Fagopyrum esculentum disease? (B) Hypericum perforatum (A) Magnifera indica (B) Terminalia Arjuna (C) Citrus aurantium (C) Cinchona officinalis (D) Podophyllum hexendrum Nicotiana tabacum (D) Biological source and an adulterant of Rauwolfia serpentine are: 66. Adhatoda vasak Leaf is used for (A) Leaves, Rauwolfia densitiflora treatment of: (B) Flower, Pisum sativum (A) Cold and Cough (C) Dried rhozomes and roots. Tetanus (B) Rauwolfia perakensis (C) Malaria Bark, Pisum sativum (D) Cholera Following crude drug does not come Precursor for biosynthesis of tropane 72. under class of organised drug: alkaloid: (A) Lectin (A) Ornithine Flower (B) (B) Tyrosine (C) Fruits (C) Leucine (D) Gums (D) Lysine Disease "stripe canker" is connected Purine alkaloids are identified by: 73. with which drug? (A) Van-urks test (A) Nux vomica (B) Vitali Morin test (B) Rauwolfia (C) Murexide test (C) Ashwagandha (D) Bortrager test (D) Cinchona 69. The process of detoxification of Ergot powder gives blue colour with: Avurvedic preparation is known as: . 74. (A) p-dimethylaminobenzaldehyde Refining (A) o-dimethylaminobenzaldehyde Concentrating (C) All of these (C) Shodana None of these (D) Incineration (Turn over) (9) LB - 1A/26

- 75. Libermann-burchards test is the identification test for:
 - (A) Napthaquinone
 - (B) Glycosides
 - (C) Tanins
 - (D) Steroids
- 76. The strength and pH of commercial HCI is around:
 - (A) 36 M, 1
 - (B) 12 M, 1
 - (C) 12 M, <-1
 - (D) 3.6 M, <-1
- 77. Sequence of events in a mass spectrometer is:
 - (A) Acceleration, deflection, detection, ionization
 - (B) Ionization, acceleration, deflection, detection
 - (C) Acceleration, deflection, ionization, detection
 - (D) Ionization, deflection, acceleration, detection
- 78. If a paracetamol solution (molar absorptivity 715) placed in a 1 cm path length cuvette provides an absorption value of 0.825, what is the concentration of this solution?
 - (A) 1.1 g / 100 ml
 - (B) 0.0011 mg / 100 ml
 - (C) 0.0011 g / 100 ml
 - (D) 0.0011 mg / 100 ml

- 79. The mid-IR range corresponds to :
 - (A) 4000 400 cm⁻¹
 - (B) 2.5 25000 μm
 - (C) 250 25000 nm
 - (D) 12500 -40000 cm⁻¹
- 80. A laboratory pH meter works on the principle of :
 - (A) Amperometry
 - (B) Voltammetry
 - (C) Potentiometry
 - (D) Colorimetry
- 81. An analytical technique suitable for studying the different solid state polymorphic forms of a drug is:
 - (A) HPLC
 - (B) DSC
 - (C) NMR
 - (D) LC-MS
- 82. Amino acids detected spraying the plate with ninhydrin solution is an example of:
 - (A) Column chromatography
 - (B) Thin layer chromatography
 - (C) Paper chromatography
 - (D) Liquid chromatography
- 83. In chromatography, the height equivalent to theoretical plate (HETP) is expressed by:
 - (A) van der Waal's equation
 - (B) van Deemter equation
 - (C) Beer-Lamberts Law
 - (D) DLVO equation

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84.	Flow	through cell is involved in the	88.	Ву с	onvention, standard electrode	
	USP	dissolution apparatus:		pote	ntial is taken as:	
	(A)			(A)	Oxidation potential	
	(B)	II		(B)	Reduction potential	
	(C)			(C)	Redox potential	
	(D)	V		(D)	None of these	
85.		PLC which detector is based bulk property of elute?	89.	(3)	en the salt bridge is removed from	
	(A)	Refractive index detector		a cell, its voltage:		
	(B)	Diode array detectors		(A)	Will increase	
	(C)	Florescence detectors		(B)	Will decrease to half	
	(D)	None of these		(C)	Will decrease to zero	
86.	In fla	ame photometer and	2 6	(D)	Will not change	
	CARL DISCHARGE	are measured for ntitative and qualitative analysis sectively.	90.	Which of the following substances can act as both oxidizing and		
la la	(A)	Wavelength / Colour, Intensity		redu	ucing agent?	
	(B)	Intensity, Wavelength / Colour		(A)	KMnO ₄	
	(C)	both analysis		(B)	K ₂ Cr ₂ O ₇	
				(C)	HNO ₃	
	(D)	Only Wavelength is determined for both analysis		(D)	H ₂ O ₂	
87		titration of sulphuric acid with	91.	The	e cell constant of a conductivity	
	(A)	Titration of monoprotic acid with weak base		(A)	Changes with a change of concentration of electrolyte	
E IIR	(B)			(B)	Remains constant for a cell	
	(C)			(C)	Changes with a change of electrolyte	
	(D)	weak base (D) Titration of monoprotic acid with monoprotic base		(D)	Changes with change in temperature	
11	IR _ 14/26				(Turn over)	

- 92. Method validation parameter that denotes how close the measured values lie with each other after repeated measurements under completely identical set of conditions is:
 - (A) Precision
 - (B) Accuracy
 - (C) Reproducibility
 - (D) Robustness
- 93. Phenolphthalein is a synthetic indicator and its colours in acidic and basic solutions, respectively are:
 - (A) Red and blue
 - (B) Blue and red
 - (C) Pink and colourless
 - (D) Colourless and pink
- 94. The oxidation number of Cr in $K_2Cr_2O_7$ is:
 - (A) +6
 - (B) + 7
 - (C) + 5
 - (D) + 4
- 95. Which of the following cannot be used as adsorbent in Column adsorption chromatography?
 - (A) Magnesium oxide
 - (B) Silica gel
 - (C) Activated alumina
 - (D) Potassium permanganate

- 96. In quantitative analysis by UV-VIS spectroscopy, the error in the determination of the concentration will be lower if we work with:
 - (A) Big cuvettes
 - (B) Highly diluted solution
 - (C) In the range of intermediate transmittances
 - (D) High absorbance
- 97. The distance between the centers of the peaks of doublet is called as:
 - (A) Coupling constant
 - (B) Spin constant
 - (C) Spin-spin coupling
 - (D) Chemical shift
- 98. Which of the following organic compound with molecular formula C3H C12 exhibits only one signal in the IH NMR spectrum?
 - (A) 2, 2-dichloropropane
 - (B) 1, 2-dichloropropane
 - (C) 1, 3-dichloropropane
 - (D) 1, 1-dichloropropane
- 99. Biowaiver is
 - (A) Permission for not conducting preclinical testing prior to Phase-I studies
 - (B) Permission for not conducting bioavailability in humans
 - (C) Permission for using dissolution data only to indicate bioavailability
 - (D) Permission to market the product without bioavailability and toxicity

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Contd.

- 100 In reverse phase HPLC, the stationary phase is:
 - (A) Dimethyl silane
 - (B) Tetramethyl silaxane
 - (C) Hexamethyl disilazine
 - (D) Methyl silane
- 101. A proteolytic enzyme obtained from Pappaya is :
 - (A) Pepsin
 - (B) Lysozyme
 - (C) Bromelain
 - (D) Trypsin
- the transplacental barrier and provides maternal protection is:
 - (A) IgG
 - (B) IgM
 - (C) IgD
 - (D) IgA
- 103. An example of double stranded DNA virus is:
 - (A) Picronaviridae
 - (B) Parvoviridae
 - (C) Retroviridae
 - (D) Adenoviridae
- 104. The most common class of hospital acquired infections are:
 - (A) Digestive tract infections
 - (B) Urinary tract infections
 - (C) Wound infections
 - (D) Respiratory tract infections

- 105. Neomycin is obtained from:
 - (A) Escherichia coli
 - (B) Bacillus subtilis
 - (C) Staphylococcus aureus
 - (D) Streptomyces fradiae
- 106. Endo agar contains:
 - (A) Safranin
 - (B) Phenol red
 - (C) Basic fuchsin
 - (D) Neutral red
- 107. Which of the following cells is involved in cell-mediated immunity?
 - (A) Leukaemia
 - (B) T cells
 - (C) Mast cells
 - (D) Thrombocytes
- 108. New Delhi superbug refers to bacteria:
 - (A) Methicillin resistant Staphylococcus aureus
 - (B) Bacteria which produce Metallo-beta-lactamase type 2 enzyme or NDM enzyme
 - (C) Methicillin resistant Streptococcus aureus
 - (D) E. coli isolated from hospital wastes
- 109. The last line drug used to treat most antibiotic resistant bacterial infections:
 - (A) Carbapenems
 - (B) Floroquinolone
 - (C) Macrolides
 - (D) Cephalosporins

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110.	Whi	ch one of the following is not a			
	Gram - negative bacteria?				
	(A)	Clostridium perfringes			
	(B)	Vibrio cholerae			

- (C) E. coli
- (D) Bordetella pertussis
- 111. A disease which is not an example of fungal infection:
 - (A) Cryptococcus neoformans
 - (B) Candida albicans
 - (C) Tinea nigra
 - (D) Chlamydiae
- 112. The Gram stain and Acid fast stain are based on chemical properties of:
 - (A) Cell wall
 - (B) Plasma membrane
 - (C) Endoplasmic reticulum
 - (D) Plasmid DNA
- 113. A pregnant woman has developed urinary tract infection, she should not be treated with:
 - (A) Trimethoprim
 - (B) Floroquinolone
 - (C) Sulfioxazole
 - (D) Nitrofurantoin
- 114. What is the molarity of 20 ppm glucose solution?
 - (A) 0.11 M
 - (B) 1.1 M
 - (C) 20 µM
 - (D) 1.8 µM
- LB 1A/26 (14)

- 115. Which of the following is true about phosphodiester linkage?
 - (A) 3'-phosphate group of one nucleotide unit is joined to the 5'-hydroxyl group of the next nucleotide.
 - (B) 3'-phosphate group of one nucleotide unit is joined to the 3'-hydroxyl group of the next nucleotide.
 - (C) 5'-phosphate group of one nucleotide unit is joined to the 3'-hydroxyl group of the next nucleotide.
 - (D) 5'-phosphate group of one nucleotide unit is joined to the 5'-hydroxyl group of the next nucleotide
- 116. In PCR, oligo primers bind to target sequence duirng _____ step at _____ temperature.
 - (A) Denaturation, 94°C
 - (B) Annealing, 94°C
 - (C) Annealing, temperature varies for each template
 - (D) Extension, 40°C
- 117. β-oxidation of fatty acids takes place at:
 - (A) Peroxisomes
 - (B) Mitochondrion
 - (C) Lysosome
 - (D) Endoplasmic reticulum

(14) Contd.

- 118. The enzymes having additional sites, other than catalytic site which is used for binding for regulatory metabolites is referred to as ______.
 - (A) Isoenzyme
 - (B) Biosensor
 - (C) Allosteric enzymes
 - (D) Effectors
- 119. The function of ligases is:
 - (A) Link phosphate and hydroxyl ends via phosphodiester bond
 - (B) Remove phosphate from DNA and RNA
 - (C) Transfer terminal phosphate group from ATP to -OH groups
 - (D) All of these
- 120. Which enzyme is not made of protein?
 - (A) DNase I
 - (B) Taq DNA polymerase
 - (C) RNase H
 - (D) Ribozyme
- 121. Normal SGOT levels in serum are:
 - (A) 8-45 Units
 - (B) 80 100 Units
 - (C) <8 Units
 - (D) > 80 Units
- 122. Unit of K_m in enzyme kinetics:
 - (A) Unitless
 - (B) M⁻¹
 - (C) M
 - (D) Ms-1

- 123. When [S] = KM, the velocity of an enzyme catalyzed reaction is about:
 - (A) 0.1 × V_{MAX}
 - (B) 0.2 × V_{MAX}
 - (C) 0.3 × V_{MAX}
 - (D) 0.5 × V_{MAX}
- 124. Cholesterol and fatty acids absorbed from the intestinal lumen are packaged into which types of lipoproteins and secreted from the enterocytes into the lymph?
 - (A) Chylomicrons and HDL
 - (B) Chylomicrons and VLDL
 - (C) HDL and LDL
 - (D) VLDL and HDL
- 125. Deficiency of an enzyme called branched-chain alpha-keto acid dehydrogenase causes buildup of amino acids in the body and nerve damage results, the disease is known as:
 - (A) Gaucher Disease
 - (B) Phenylketouria
 - (C) Fabry
 - (D) Maple Syrup urine
- 126. Bedaquiline is used in the treatment of:
 - (A) Malaria
 - (B) Leishmaniasis
 - (C) Tuberculosis
 - (D) Yellow fever

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- 127. Which of the following statement is not true for reserpine?
 - (A) It can cause depression
 - (B) It is a terpenoid
 - (C) It is usually prescribed in combination with thiazide diuretics in treatment of hypertension
 - (D) It is prescribed in doses generally not more than 0.2 mg/ day
- 128. CDSCO is administered under:
 - (A) Ministry of Chemicals and Fertilizers, Govt. of India
 - (B) Ministry of Health and Family Welfare, Govt. of India
 - (C) Department of Pharmaceuticals, Govt. of India
 - (D) Ministry of Law and Social Justice, Govt. of India
- 129. Schedule H1 of Drugs and Cosmetics rule deal with:
 - (A) Narcotic drugs
 - (B) Antibiotics
 - (C) Anti-doping drugs in sports medicine
 - (D) Gene therapy
- 130. The most common complication of insulin therapy is:
 - (A) Retinopathy
 - (B) Hypotension
 - (C) Hypoglycemia
 - (D) Muscular dystrophy

- 131. Misbranded drugs are covered in D and C Act under Section :
 - (A) 18
 - (B) 9
 - (C) 12
 - (D) 17
- 132. Manufacturing of Ayurvedic medicines in D and CA are dealt in:
 - (A) Schedule X
 - (B) Schedule T
 - (C) Schedule Y
 - (D) Schedule C
- 133. Drugs are imported for examination, test or analysis:
 - (A) Form 24
 - (B) Form 12
 - (C) Form 10
 - (D) Form 29
- 134. One of the following laboratories is not established under CDSCO or Drugs and Cosmetics Act:
 - (A) CDTL Hyderabad
 - (B) CDTL Mumbai
 - (C) CDRI Lucknow
 - (D) CDL Kasauli
- 135. Type I ADR reactions is:
 - (A) Caused when T-cells bind to a specific antigen
 - (B) Caused by tissue injury
 - (C) IgE mediated
 - (D) Caused by cytotoxic antibodies

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- DI/ GPAT/ NIPER Papers | Pharma News Updates | D. Pharma Notes | Pharmacy College Informations | Pharma Industry Updates Visit: https:/pharmacyindia.co.in Cell mediated delayed hypersentivity 141. Following activity is not considered reactions belong to: part of cGMP: (A) Type 4 ADR (A) Maintenance of complaint files (B) Type 3 ADR (B) Study of stability of finished drug product (C) Type 2 ADR (C) Non requirement of equipment (D) Type 1 ADR for processing activity 137. The sponsor in clinical study is: Testing of product containers (A) Country 142. The FDA requires that all clinical trial (B) Organisation records be maintained and (C) Society accessible at trail sites for minimum (D) Cohort of: 138. Drug price control order 1995 and (A) 1 year related orders from time to time are (B) 2 years enforced by: (C) 3 years (A) NPPA (D) 4 years (B) CSIR 143. Specific requirements for (C) DBT manufacture of sterile products and (D) ICMR parenteral preparations are prescribe in which part of Schedule 139. Blood and blood products are M ? governed by: (A) Part IA (A) Schedule B (B) Part IB (B) Schedule C (C) Part IC (C) Schedule C1 (D) Part ID Schedule G (D) 144. Permission to import or manufacture 140. Medical devices are distinguished new drugs for clinical trials is from drugs on the basis of: provided under: (A) Chemical composition (A) Form 21 (B) Physical Form
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(C) Mechanism of Action

which intended

(D) Diseases and conditions for

(B) Form 44

(C) Form 11

(D) Form 12A

145.	Prev	ention of cruelty to animals act		(B)	Captoprii	Tierre.
E	was	enacted in :		(C)	Hydrochlorothiazide	0
381	(A)	1940		(D)	Clonidine-	
	(B)	1950	150	The	most commonly used ra	idio-
	(C)	1960			rmaceuticals are based	
	(D)	1970		994	nent:	
146.		of clinical trial involves		(A)	Technetium	
WST)	A	time human trial in a small		(B)	Rhenium	
· hre	num	ber of patients.		(C)	Barium	
	(A)	Phase I		(D)	Calcium	
	(B)	Phase II	151	Whi	ch of the antihistaminic drug	was
	(C) Phase III		131.		drawn from the market owi	
	(D)	Phase IV	-		liac adverse effects?	
147	The	antidiabetic drug which can		(A)	Cetrizine	
		ease the risk of bladder cancer	IV	(B)	Loartidine	
No.	and	bone fractures :		(C)	Terfenadine	
	(A)	Pioglitazone		(D)	Clemastine	
	(B)	Metformin	150	IA/h	ch one is not the side offe	ot of
	(C)	Sitagliptin	152.	. Which one is not the side effect of steroids?		
	(D)	Liraglutide		(A)	Hyperglycaemia	
148	The	objectives of PTC is:		(B)	Bone density decline	
	(A)	Recomend policies		(C)	Muscular weakness	
	(B)	Education		(D)	Hypoxia	
199	(C)	Drug safety and ADR	590	36.0	The pulling gales	de tes
	(0)	monitoring	153.		CNS penetration which	n is
	(D)	Conducting clinical trails		(A)	irable quality?	
					Lipid soluble	
149		patient with mild hypertension first line drug should be :		(B)	Weak bases	
		The second secon		(C)	Weak acids	
	(A)	Hydralazine		(D)	All of these	
LB-	- 1A/2	26	(18)		C	ontd.

- 154. Which of these is used as preanesthetic medication?
 - (A) Asprin
 - (B) Atropine
 - (C) Amlodipine
 - (D) Astaxanthine
- 155. Most common side effect of Morphine is:
 - (A) Liver damage
 - (B) Tinitis
 - (C) Blood dyscrasias
 - (D) Constipation
- 156. Which of these should not be given to a patient with active Tuberculosis?
 - (A) Kanamycin
 - (B) Hydrocortisone
 - (C) Alpha lipoic acid
 - (D) Streptomycin
- 157. Which of these anticoagulant is the fastest acting?
 - (A) Heparin
 - (B) Warfarin
 - (C) Protamine sulfate
 - (D) Ouabain
- 158. Colchicine was used mainly for treating:
 - (A) Arthritis
 - (B) Gout
 - (C) Diabetes
 - (D) Hypertension

- 159. Most useful treatment option for Bacterial Meningitis is :
 - (A) Tetracycline
 - (B) Cefotaxime
 - (C) Kanamycin
 - (D) Carbachol
- 160. Which of the following is TNF blocker?
 - (A) Atenolol
 - (B) Sodium Barbiturate
 - (C) Etanercept
 - (D) Cromolyn Sodium
- 161. Incorrect statement about the important properties of Corona Virus:
 - (A) Non-Enveloped RNA virus
 - (B) Enveloped RNA virus
 - (C) Contagious
 - (D) Can spread from person to person
- 162. Phenytoin should not be used during pregnancy because it cause :
 - (A) Gum hypertrophy
 - (B) Hypersensitivity
 - (C) Hirsutism
 - (D) Hypoplastic phalanges
- 163. Digitalis improves atrial fibrillation by:
 - (A) Decrease conduction through AV
 - (B) By decreasing cardiac contractility
 - (C) Increase in refractoriness of AV nodal tissue
 - (D) By causing bradycardia

LB – 1A/26 (19) (Tum over)

- 164. Adverse effect of depot preparation of triamcinolone :
 - (A) Atopic dermatitis
 - (B) Proximal myopathy
 - (C) Vasculitis
 - (D) Atrophic rhinitis
- 165. Which of the following drug is devoid of decreasing angiotensin II activity?
 - (A) Enalapril
 - (B) Valsartan
 - (C) Nesiritide
 - (D) Omapatrilat
- 166. Which of the following drug is having additional platelet anti-aggregatory effect?
 - (A) Prazosin
 - (B) Losartan
 - (C) Amlodipine
 - (D) Diazoxide
- 167. Metoprolol is metabolized by which of the following enzyme?
 - (A) CYP2C9
 - (B) CYP2C19
 - (C) CYP2C8
 - (D) CYP2C6
- 168. Which of the following statement is not true with respect to butyryl cholinesterase?
 - (A) It is found in all cholinergic sites,
 RBC, and gray matter

- (B) It is found in plasma, I—er, intestine, and white matter
- (C) It slowly hydrolyses Acetylcholine
- (D) It is responsible for the hydrolysis of ingested esters
- 169. What is the drug of choice for eclampsia?
 - (A) Tiagabine
 - (B) Vigabatrin
 - (C) Magnesium Sulphate
 - (D) Sodium valproate
- 170. Which is the first-choice drug for hyperprolactinaemia?
 - (A) Bromocriptine
 - (B) Cabergoline
 - (C) Quniagolide
 - (D) Pergolide
- 171. Which of the following diuretics are preferred in hypercalciuric patients?
 - (A) Loop diuretics
 - (B) Potassium sparing diuretics
 - (C) Thiazide diuretics
 - (D) Aldosterone antagonists
- 172. Which of the following fluroquinolone is having QTc prolongation action?
 - (A) Levofloxacin
 - (B) Lomefloxacin
 - (C) Pefloxacin
 - (D) Gatifloxacin

LB – 1A/26 (20) Contd.

3. Remdesivir targets:

- (A) RNA-dependent RNA polymerase
- (B) Reverse transcriptase
- (C) Glycoprotein 120
- (D) Spike protein
- 174. Heart rate of a patient on imipramine rises to 120/min and has blurred vision. The effect is due to:
 - (A) Anti-muscarinic effect of imipramine
 - (B) Epinephrine potentiator
 - (C) Ganglionic blocker
 - (D) α-adrenergic antagonist
- 175. Which among the following drug combinations does not produce an additive effect?
 - (A) Aspirin + Paracetamol
 - (B) Nitrous oxide + Halothane
 - (C) Ephedrine + Theophylline
 - (D) Acetylcholine + Physostigmine
- 176. Heart contraction is initiated by:
 - (A) Left Atrium
 - (B) Right ventricle
 - (C) SA node
 - (D) AV node
- 177. The Dorsal Root Ganglion (DRG) are located:
 - (A) Near the Heart
 - (B) Near the spinal cord
 - (C) Near the peripheral nociceptors
 - (D) None of these

- 178. Peyers Patches in ileum perform the following function :
 - (A) Secretion of digestive enzyme
 - (B) Further digestion of food
 - (C) Absorption of water and nutrients
 - (D) Both (B) and (C)
- 179. Pigment responsible for light yellow to pale coloration of urine :
 - (A) Bilirubin
 - (B) Urobilin
 - (C) Bilveridin
 - (D) None of these
- 180. The blood pressure of healthy human is represented as:
 - (A) 120/80
 - (B) 80/120
 - (C) 120/60
 - (D) 60/120
- 181. Amount of air that moves in or out of lungs with each respiratory cycle:
 - (A) Minute volume
 - (B) Tidal volume
 - (C) Vital capacity
 - (D) Force expiratory volume
- 182. Methyl Testosterone is a steroidal hormone of the :
 - (A) Pituitary
 - (B) Follicle
 - (C) Corpus luteum
 - (D) Interstitial cells

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- 183. Reteroperitoneal in anatomy means:
 - (A) Left side of Peritoneum
 - (B) Right side of Peritoneum
 - (C) Front of the peritoneum
 - (D) Behind the peritoneum
- 184. The lung is lined by thin layer of tissue known as:
 - (A) Pleura
 - (B) Peritoneum
 - (C) Alevoli
 - (D) Bronchioles
- 185. Ocular hypertension lead to:
 - (A) Myopia
 - (B) Metropia
 - (C) Glaucoma
 - (D) None of these
- 186. Blood that has the lowest risk of causing serious reactions for most people who receive it:
 - (A) A+
 - (B) B+
 - (C) AB
 - (D) A-
- 187. Cardiac muscles are:
 - (A) Voluntary
 - (B) Involuntary
 - (C) Skeletal
 - (D) None of these
- 188. Hb1 Ac levels range for diabetes:
 - (A) 4.5-5.4%

- (B) 5.5-6.4%
- (C) 6.5% and above
- (D) None of these
- 189. EEG is done to measure:
 - (A) Brain Activity
 - (B) Muscle Activity
 - (C) Both (A) and (B)
 - (D) Neither (A) Nor (B)
- 190. Following are the mechanism for heat loss from the body except:
 - (A) Radiation
 - (B) Evaporation
 - (C) Conduction to objects
 - (D) Sublimation
- 191. Arneth count:
 - (A) Is utilized to calculate the heartbeat of a dying man
 - (B) Is utilized to calculate the inspiratory volumes
 - (C) Is utilized to classify neutrophils
 - (D) Is a marker of failing kidney
- 192. Blind spot of retina does not form any images as :
 - (A) It is not present in the optical axis of the eye
 - (B) Here rods and cones are absent
 - (C) On this part only rods are present
 - (D) Nerve fibres of this region don't contribute to the formation

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Contd.

- 193. Volkmann's Contracture is the Clinical signs of which of the following condition?
 - (A) Heart attack
 - (B) Myocardial infraction
 - (C) Angina pectoris
 - (D) Ischaemia of forearm
- 194. Swallowing and speech is controlled by which of the following nerve?
 - (A) Accessory nerves
 - (B) Hypoglossal nerves
 - (C) Abducent nerves
 - (D) Facial nerves
- 195. Vitamin K is essential for the synthesis of which clotting factors?
 - (A) I, III, IX, VII
 - (B) II, VII, IX, X
 - (C) V, VIII, VI, VII
 - (D) III, V, VIII, IX
- 196. What is the hemispherical pale area of the nail called?
 - (A) Mantle
 - (B) Cuticle
 - (C) Lunula
 - (D) Nail bed

- 197. Proprioceptor senses are generated in:
 - (A) Skin
 - (B) Muscles and joints
 - (C) Endocrine glands
 - (D) Internal organs of the body
- 198. The outer plexus of the enteric nervous system is also called as:
 - (A) Submucosal plexus
 - (B) Meissner's plexus
 - (C) Auerbach's plexus
 - (D) Choroid plexus
- 199. All lead to the increase in BMR except:
 - (A) Thyroid hormone
 - (B) Fever
 - (C) Sleep
 - (D) Male sex hormones
- 200. With which organ the Symphysis pubis is associated?
 - (A) Anteriorly with the urinary bladder
 - (B) Anteriorly with the kidney
 - (C) Posteriorly with the uterus and the upper part of the vagina
 - (D) Inferiorly with the urethra and muscles forming the pelvic floor

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