

HIMACHAL PRADESH DI 2009

1. Which of the following trademarked sustained release systems are based on encapsulated drug particles that will dissolve at various rates ?

- I. Sequels
- II. Spansules
- III. Extentabs.

Of these

- A. I only
- B. {c}III Only
- C. I and II
- D. I, II, and III

2. Compartmental models are often used to illustrate the various principles of pharmacokinetics. A compartment is best defined as

- A. any anatomic entity that is capable of absorbing drug
- B. {c}a kinetically distinguishable pool of drug
- C. specific body organs in tissues that can be assayed for drug
- D. any body fluid such as blood in urine that may contain drug.

3. Dimethyl sulphoxide is commonly used as an excipient in transdermal patches as

- A. adhesive
- B. {c}permeation enhancer of lipophilic drugs
- C. permeation enhancer of hydrophilic drugs
- D. release liner.

4. Ideal conditions for effective transdermal drug delivery would include molecular

weight of.....and pH of.....for the saturated aqueous solution of the drug.

- A. < 500 Da, 1 - 5
- B. > 500 Da. 1 - 5
- C. {c}< 500 5 - 9
- D. > 500 Da, 5-9

5. All of the following drugs are believed to undergo significant first-pass hepatic biotransformation, except

- A) phenytoin
- B) lidocaine
- C) morphine
- D) {c}nitroglycerine.

6. Agglomeration In aerosols can be reduced by including

- A. anionic surfactants with HLB greater than 10
- B. cationic surfactants with HLB less than 10
- C. non-ionic surfactants with HLB greater than 10
- D. {c}non-ionic surfactants with HLB less than 10.

7. In a suspension, open network aggregate or floccule tends to

- A. settle quickly and cannot be easily redispersed
- B. BJ settle slowly and can be easily redispersed
- C. {c)settle quickly and can be easily redispersed
- D. settle slowly and cannot be easily redispersed.

8. The particle size range of nano- -particles is

- A. 1 nm — 1 pm
- B. 1 nm — 1000 nm

- C. {c}Inm — 100 nm
D. 0-5 pm — 1 nm.
9. Transdermal drug delivery systems contain drugs meant for
A. local action
B. systemic action
C. {c}both (A) and (B)
D. none of these.
10. Which one of the following per oral dosage forms is likely to exhibit the longest lag time ?
A. Delayed release tablet
B. Elixir
C. {c}Enteric coated tablet
D. Sustained release capsule.
11. The equation that describes the process of 'Passive Transport' is
A) Noyes-Whitney equation
B) Stokes law
C) {c}Fick's law
D) Hofmeister rule.
12. The gelatin used in the manufacture of capsules is obtained from collagenous material by
A) {c}hydrolysis
B) decarboxylation
C) acetylation
D) conjugation.
13. Opalux is
A) colour concentrate for fluidized bed coating
B) {c}colour concentrate for film coating
C) complete colour concentrate for enteric coating
D) colour concentrate for sugar coating.
14. Creams are
A) emulsions
B) gels
C) jellies
D) {c}magmas.
15. Dissolution tests for tablets are done to measure indirectly
A) hardness
B) {c}bioavailability
C) solubility
D) friability.
16. Trichloromonofluoromethane is numerically designated as
A) 12
B) {c}11
C) 114
D) 22.
17. Sealing in sugar coating is done
A) to release drug in the intestine
B) to sustain release of the drug
C) to round the edges of tablet core
D) {c}to prevent moisture penetration into tablet core.
18. is used to remove the Pyrogen during the preparation of water for injection.
A) {c}Membrane filter
B) Condenser
C) Still head
D) Filter head.
19. The type of official eye ointment base is
A) {c}hydrocarbon
B) absorption
C) water miscible
D) water soluble.

20. Parenteral product with an osmotic pressure less than that of 0.9% w/v sodium chloride solution is referred to as
- A) isotonic solution
B) hypertonic solution
C) hypotonic solution
D) iso-osmotic solution.
21. Which of the following is not a super-disintegrant ?
- A. Microcrystalline cellulose
B. Sodium starch glycolate
C. Croscarmellose
D. Crospovidone
22. Terminally sterilized products are
- A. those that are sensitive to heat and gamma irradiation
B. those that can be sterilized after filling and sealing
C. those products that can be autoclaved
D. usually suspensions or powders.
23. Slugging is also called as
- A) dry granulation
B) wet granulation
C) bulk production
D) direct compression.
24. Pinocytosis is known as
- A) vesicular transport
B) engulfment of small solutes
C) engulfment of larger particles
D) absorption phenomena.
25. List of the substances that are required to be used only under medical supervision and which are labelled accordingly Is / are
- A) R
B) G
C) P
D) C and C1
26. Establishment(s) which has/have a qualified person engaged in compounding of
- A) Drug store
B) Chemists and druggists
C) Pharmacy
D) none of these.
27. Licence for wholesale of drugs specified in the schedule C and C1 is issued in Form
- A) 20-A
B) 20-B
C) 21-B
D) 22-A
28. The left hand top corner of the label of schedule X bulk drugs contains symbol,
- A) Rx
B) RMP
C) X
D) XRx
29. In constitution of State Pharmacy Councils total number of Registered Pharmacists to be elected is
- A) five
B) six
C) seven
D) four.
30. The Drugs and Cosmetics Rules were passed in the year of
- A) 1945
B) 1947
C) 1944

- D) 1946.
31. How many representatives are nominated by the Central Government to Drug Consultative Committee ?
- A) 1
B) {c}2
C) 3
D) 4.
32. The sample taken by the Drug Inspector from the retail premises should be divided into
- A) 4 parts
B) {c}3 parts
C) 2 parts
D) 5 parts.
33. As per GMP, change rooms to the aseptic areas of sterile product manufacturing area should be clearly demarcated into the following rooms, except
- A) 1 Black room
B) {c}Blue room
C) Grey room
D) White room.
34. As per GMP, during tablet compression, in-process control should be done at regular intervals of
- A) not more than 45 minutes
B) not more than one hour
C) {c}not more than 30 minutes
D) every one hour.
35. Drug (Price Control) Order came into force in the year
- A) 1979
B) {c}1955
C) 1960
- D) 1987.
36. Equipment recommended for the manufacture of powders come under
- A) Schedule H
B) {c}Schedule M
C) Schedule N
D) Schedule X
37. Magic remedies include
- A) Talismans
B) Mantras
C) Kavachas
D) {c}all of these.
38. Spurious drugs mean
- A) imitations
B) substitutes
C) resembling other drugs
D) {c}all of these.
39. GMP for Ayurvedic, Siddha and Unani medicines are covered by
- A) Schedule U
B) {c} Schedule T
C) Schedule W
D) Schedule M
40. Protoplasmic plant tissue culture method was introduced in 1960 by
- A) {c}Cocking
B) Skoog & Miller
C) Gamborg and Neabors
D) Carlson.
41. The sugar concentration of molasses used in the production of industrial alcohol should be
- A) {c}10% to 18%
B) 4% to 8%
C) 15% to 25%

- D) 20% to 30%.
42. The fibrin clot produced when thrombin is mixed with
- A) {c}fibrinogen
B) fibrin foam
C) dried human serum
D) citrate-saline.
43. Exotoxin producing bacteria are
- A) Salmonella typhi
B) Vibrio cholerae
C) {c}Clostridium tetant
D) Pasteurella pestis.
44. Following are the carbon sources used in the fermentative production of Jv-glutamic acid, except
- A) ri-paraffin
B) acetic acid
C) ethanol
D) {c}propylene glycol.
45. Among the proteins present in horse serum, associated with antitoxins (diphtheria) are largely
- A) gamma globulins
B) {c}beta globulins
C) albumins
D) all of these.
46. Small bench fermentors are made up of
- A) {c}stainless steel
B) borosilicate glass
C) plastic
D) all of these.
47. Bioreactor is the instrument used for growing
- A) {c}bacterial cells
B) insect cells
C) mammalian cells
D) both (B) and (C).
48. Transfer of genetic material from one bacterium to another bacterium through bacteriophage is called
- A) {c}Transduction
B) Conjugation
C) Transformation
D) all of these.
49. Macroglobulin is
- A) {c}Ig M
B) IgA
C) Ig D
D) Ig E.
50. Schick test is performed for testing the individual for the presence of
- A) Polio
B) {c}Pneumonia
C) Diphtheria
D) Tuberculosis.
51. The target site on DNA for Bam HI endonuclease is
- A) G ↓ GATCC
B) G ↓ AATTC
C) GG ↓ CC
D) A ↓ AGCTT.
52. Quality control of vaccines is carried out by .
- A) in vivo
B) in vitro
C) {c}in vivo and tn vitro
D) neither in vivo nor in vitro.
53. Whooping cough vaccine employs killed cell of
- A) {c}BordeteUa pertussis

- B) *Pseudomonas aeruginosa*
C) *Vibrio cholerae*
D) *Salmonella typhi*L
54. Which one of the following is the suitable site of self-injection of interferons
- A) {c}Subcutaneous
B) Abdomen
C) Legs
D) Finger.
55. A significant number of antibodies now in use belongs to Immunoglobulin,
- A) {c}Ig G
B) Ig H
C) Ig M
D) Igl.
56. High concentration of several proteins is obtained from.....serum.
- A) monkey
B) {c}horse
C) rabbit
D) rat.
57. Which drug is used to prevent embolism in the lung and during myocardiial infarction ?
- A) Granulocyte-macrophage colony-stimulating factor (GM-CSF)
B) {c}Alteplase
C) EPOGEN (EPO)
D) Human growth hormone.
58. Which enzyme is used by the HIV to form DNA in the host cell ?
- A) Restrictive endonuclease
B) DNA-directed polymerase
C) {c}Reverse transcriptase
D) Both (A) and (B).
59. Which type of cell does not contain double-stranded deoxyribonucleic acid ?
- A) Human cells
B) Bacteria cells
C) {c}Human immunodeficiency virus (HIV) cells
D) Fungal cells.
60. Dextran are used as blood-plasma volume extenders because
- A) they are heat sterilized
B) they do not carry virus
C) both (A) and (B)
D) {c}none of these.
61. The organism used for the production of Dextran is
- A) {c}Leuconostoc mesenterotds
B) *Lactobacillus bulgarium*
C) *Clostridium botulinum*
D) *Granulobacter botulinum*
62. Mechanism of citric acid fermentation is confirmed by
- A) theory of Emde
B) {c}Krebs' cycle
C) theory of Ciusa and Briill
D) Bemhauer's theory.
63. The first pharmaceutical product to be produced by mammalian cell culture is
- A) tPA
B) {c}tRNA
C) tDNA
D) tG H .
64. India is the.....country in the world to develop an indigenous Hepatitis-B vaccine.
- A) {c}2nd

74. In IR spectroscopy which region provides information for molecular structure elucidation ?

- A) Near IR
- B) Far IR
- C) {c} Middle IR
- D) Very near IR.

75. In HPLC which detector is based upon bulk property of elute ?

- A) {c} Refractive index detectors
- B) Diode array detectors
- C) Fluorescence detectors
- D) PMT

76. Example for Emission Spectroscopy is

- A) Atomic Absorption Spectroscopy
- B) Flame Photometry
- C) Fluorimetry
- D) {c} all of these.

77. In NMR spectroscopy, the chemical shift is expressed in

- A) gauss
- B) {c} parts per million
- C) tesla
- D) hertz.

78. In mass spectroscopy for chemical ionization which reactant gas is most widely used ?

- A) {c} Argon
- B) Neon
- C) Methane
- D) Oxygen.

79. In the determination of selenium by Fluorimetry, the sensitivity can be increased by using the reagent,

- A) {c} 2, 3-diaminonaphthalene

- B) 3, 3-diaminobenzidine
- C) Cyanogen chloride
- D) 75% v/v sulphuric acid in ethanol.

80. In IR spectra, the absorption at 3300 cm^{-1} and at 1020 cm^{-1} indicates the presence of

- A) NH group
- B) Amide - C = O
- C) {c} Aliphatic C - H
- D) Hydroxyl group

81. As per the GLP, full calibration of spectrophotometers should be done

- A) {c} once a day
- B) once a month
- C) every quarter
- D) half-yearly.

82. The closeness of the results obtained by the procedure to the true value is

- A) linearity
- B) precision
- C) {c} accuracy
- D) sensitivity.

83. Which of the following contains a chromophore ?

- A) Ethylene
- B) Ethane
- C) Both (A) and (B)
- D) {c} None of these.

84. The presence of which of the following groups increases fluorescence intensity ?

- A) {c} Amino group
- B) Nitro group
- C) Both (A) and (B)
- D) None of these.

85. The purple colour formed in the limit test for iron is due to

- A) Ferric thioglycolate
- B) {c}Ferrous thioglycolate
- C) Ferrous glycolate
- D) Ferric glycolate.

86. R_f value ranges from

- A) {c}0 to 1
- B) 0 to 2
- C) 2 to - 2
- D) + 1 to - 1.

87. In the limit test for arsenic the granulated zinc and HCl help to

- A) increase the sensitivity of the test
- B) produce stable colour
- C) {c}provide an acid medium
- D) reduce the arsenic or arsenious acid to arsine.

88. In the limit test for sulphates, the alcohol in the Barium sulphate reagent helps to.

- A) increase the solubility
- B) prevent ppt of impurities
- C) clarify the solution
- D) {c}prevent super-saturation.

89. The volume of carrier gas required to elute one half of the compound from the column is expressed as

- A) Retention time
- B) Revalue
- C) R_x value
- D) {c}Retention volume.

90. In IR spectrum, the functional group region is

- A) 4000 cm^{-1} to 900 cm^{-1}

- B) {c}4000 cm^{-1} to 1400 cm^{-1}

- C) 1400 cm^{-1} to 900 cm^{-1}

- D) 4000 cm^{-1} to 660 cm^{-1} .

91. A sample is withdrawn or seized from drug store by a drug inspector and sealed. The payment of fair price of the sample

- A) is made to the drug store owner
- B) {c}is not made
- C) is made to the drug store owner and in case of refusal a Form is filled up with a receipt
- D) the drug store owner must be insisted to give it free of cost.

92. Drugs Technical Advisory Board (DTAB)- Allopathy consists of 18 members whereas DTAB -Ayurvedic, Siddha and Unani drugs consists of

- A) 18 members
- B) {c}20 members
- C) 15 members
- D) none of these.

93. The list of disease for which advertisement banned or prohibited is finalised in consultation with

- A) {c}Drugs Technical Advisory Board
- B) Drugs Testing Laboratory
- C) Central Drugs Laboratory
- D) None of these.

94. Which one of the following is not the wing of Drugs and Cosmetics Act ?

- A) Advisory wing
- B) Analytical wing
- C) Administrative wing
- D) {c}Education and Pharmacy, wing.

95. Gudakhu is a tobacco product used for rubbing against human teeth, contains tobacco powder,

lime and molasses along with red mineral matter.

Within the i provision of D & C Act it is

- A) cosmetic
- B) food
- C) {c}drug
- D) none of these.

96. Schedule M incorporating GMP (Good Manufacturing Practices) was introduced in

- A) 1987
- B) {c}1988
- C) 1989
- D) 1990.

97. In the Drugs f Price Control) Order. 1995 the first schedule consists of

- A) list of books
- B) {c}list of bulk drugs
- C) list of formulations
- D) none of these.

98. The First Schedule of Drugs and Cosmetics Act, 1940 comprises

- A) {c}the list of books of references for Ayurvedic, Siddha and Unani medicines
- B) list of Pharmacy books
- C) list of Homeopathic books
- D) none of these,

99. Batch Processing Records (BPR) should contain the following details, except

- A) {c}Analytical control number
- B) Raw material manufacturers' detail
- C) Batch number
- D) Date of commencement of operation.

100. The Head Office of Drugs Technical Advisory Board Is at

- A) New Delhi

B) {c}Kolkata

C) Mumbai

D) Chennai.

101. The antiarrhythmic drug quinidine is

- A) {c} (+) stereoisomer of quinine
- B) (-) stereoisomer of quinine
- C) (+) racemic mixture of quinine
- D) none of these.

102. The IUPAC nomenclature of Piroxicam is

- A) {c}2H-1, 2-benzothiazine-3-carboxamide, 4 hydroxy 2-methyl-N-pyridinyl-, 1, 1-dioxide
- B) 2-naphthalene acetic add, (+) 6 methoxy-a-methyl G) Benzene acetic acid (±) a-methyl-4-{2-methyl propyl J
- D) Benzoic acid, 2-[(2, 6-dichloro-3- methy phenyl) amino]

103. Prazepam differs in structure from Diazepam by

- A) N-methyl group
- B) N-propyl group
- C) N-cyclo propyl methyl group
- D) {c}N-cycio propyl group.

104. Some psychoactive phenothlezines listed below have the following side chains at position 10, which are given in 1 to 4. Match them correctly :

- | | |
|---------------------|---|
| a) Chlorpromaztne | 1. 3-[4 methyl piperazine 1-yl) propyl |
| b) Prochlorperazine | 2. 2-(1 methyl piperide 2-yl) ethyl |
| c) Thioridazine | 3. 3-14- (2 hydroxy ethyl) piperazine 1-V |

- 1 propyl
d) Perphenazine 4. Dimethyl aminopropyl.

Codes :

	a	b	c	d
A)	4	1	2	3
B)	1	2	1	3
C)	2	3	4	2
D)	3	4	3	1.

105. From the given pairs of diuretics in which pair both the drugs do not require the presence of aldosterone to produce diuresis ?

- A) Mannitol and Spiranolactone
B) Spiranolactone and Triamterene
C) {c}Triamterene and Amiloride
D) Spiranolactone and Amiloride.

106. The diuretic that is natriuretic, chloruretic, saluretic and antikaliuretic, is

- A) {c}Spiranolactone
B) Furosemide
C) Ethacrynic acid
D) Acetazolamide.

107. Of the given pairs of antihistamines, the pair in which both are, 'dual-acting' antihistamines is

- A) Cetirizine and Cromolyn sodium
B) Azelastine and Cetirizine
C) {c} Azelastine and Ketotifen
D) Ketotifen and Cromolyn sodium.

108. Diazoxide and Minoxidil can be described as

- A) {c}Potassium channel openers
B) Potassium sparing diuretics
C) Calcium channel blockers
D) Sodium channel openers.

109. In the lidocaine series of local anaesthetics, increasing the length of the alkylene chain up to three carbon units the local anaesthetic potency.

- A) increases
B) abolishes
C) {c}reduces
D) does not alter.

110. Which of the following anti-histamines does not cross the blood brain barrier easily ?

- A) Diphenhydramine
B) Cyclizine hydrochloride
C) Chlorpheniramine maleate
D) {c}Cetirizine.

111. fluorine in Flurazepam is present in

- A) 5' position
B) 31 position
C) {c}2' position
D) 4l position,

112. Ranitidine contains.....ring.

- A) Imidazole
B) {c}Furan
C) Thiazole
D) Pyridine.

113. Aspirin can be estimated by

- A) {c}non-aqueous titration
B) complexometry
C) acid-base titration
D) dead-stop end point method.

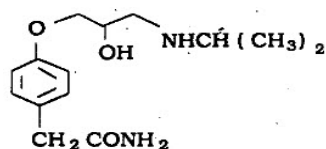
114. Which of the following is anti-cholinergic drug ?

- A) Carbachol
- B) Phenyl ephrine
- C) {c}Eucatropine
- D) Procainamide.

115. Clonidine is used in the treatment of the following disorders, except

- A) glaucoma
- B) hypertension
- C) {c}arrhythmia
- D) opiate withdrawal syndrome.

116.



is the structure of

- A) Atenolol
- B) Metoprolol
- C) Acebutolol
- D) Timolol.

117. A central carbon atom not directly connected to any H 2 and is connected to a tertiary nitrogen through a 2 carbon unit on the other side with relatively small groups on the nitrogen is the pharmacophore of

- A) H j receptor antagonists
- B) {c}Narcotic analgesics
- C) Thiazide diuretics
- D) Butyrophenone antipsychotics.

118. Homatropine is a semisynthetic obtained or synthesised by reacting

- A) Tropine find Succinic acid
- B) Tropine and Malic acid
- C) Tropine and Fumaric acid
- D) {c}Tropine and Mandelic add.

119. The 21 -chloro substituted analogue of oxazepam is

- A) {c}Lorazepam
- B) Diazepam
- C) Temazepam
- D) Prazepam.

120. Analgesic with N-Aryl anthranilic acid nucleus is

- A) Paracetamol
- B) {c}Meclofenamic add
- C) Phenyl butazone
- D) Anti-pyrine.

121. Cholinergic receptor antagonist existing as enantiomer is

- A) {c}Methacholine
- B) Carbachol
- C) Acetyl choline
- D) Bethanechol.

122. Tripelemin amine is used as its

- A) Succinate
- B) {c}Maleate
- C) Adipate
- D) Citrate.

123. Which one of the following is not a non-barbiturate ?

- A) Paraldehyde
- B) Carbromal
- C) Nitrazepam
- D) {c}Thiopental Sodium.

124. Cyclomethycaine sulphate is used in

- A) anaesthetic in chemical burns
- B) skin abrasions
- C) dermatological lesions
- D) {c}all of these.

125. Reserpine is contraindicated in patients with a history of
- A) Epilepsy
 - B) Hypertension
 - C) {c}Mental depression
 - D) Schizophrenia.
126. Digitalis overdose can be reversed by the administration of
- A) Phenytoin
 - B) Calcium
 - C) {c}Fab fragments of Digoxin antibody
 - D) Sodium.
127. Drugs causing allergic reactions generally act as
- A) {c}Antigen
 - B) Haptens
 - C) Antibodies
 - D) Mediators.
128. A potent tranquilizer which also exhibits strong hypotensive effect is
- A) Chlordiazepoxide
 - B) Meprobamate
 - C) {c}Reserpine
 - D) Thorazine.
129. Salicylates are metabolised through
- A) hydroxylation
 - B) oxidation
 - C) {c}conjugation with glucuronic acid
 - D) reduction.
130. Sodium valproate acts by
- A) blocking the metabolism of GABA
 - B) {c}blocking the GABA receptor
 - C) blocking the conduction of impulses
 - D) blocking the release of GABA
131. Atorvastatin should be taken at night after dinner because
- A) it induces sleep
 - B) {c}synthesis of cholesterol is maximum during night
 - C) the patient would be affected by sunlight if taken during daytime
 - D) of better absorption.
132. Thiocyanate accumulation and the consequent toxicity is a possibility when excess dose of..... is administered.
- A) Minoxidil
 - B) Hydralazine
 - C) {c}Sodium nitroprusside
 - D) Clonidine.
133. The specific antidote for Paracetamol poisoning is
- A) 4-Methyl Pyrazole
 - B) {c}N-Acetyl cysteine
 - C) Folinic acid
 - D) Sodium thiosulphate.
134. Digitalis produces bradycardia by the following mechanisms, except
- A) reflexly through no dose ganglion
 - B) direct stimulation of vagal centre
 - C) sensitization of SA Node to acetylcholine
 - D) {c}sensitization of SA Node to adrenaline.
135. Pilocarpine can be used in
- A) Asthma
 - B) Coronary insufficiency
 - C) {c}Glaucoma
 - D) Hyperthyroidism
136. Fluoxetine is a / an
- A) 5-HT partial agonist

- B) anti-histaminic
C) {c}inhibitor of 5-HT uptake
D) specific 5-HT 3 receptor
137. Tolerance refers to genetically determined sensitivity to a drug called as
A) {c}Linnate tolerance
B) learned tolerance
C) acute tolerance
D) dispositional tolerance.
138. Which one of the following is correctly matched ?
A) α -adrenergic antagonist — Lisinopril
B) {c}5-adrenergic antagonist* — Propranolol
C) Arterial vasodilators — Clonidine
D) Calcium channel blocker — Diazoxide.
139. The movement of drug from a region of high drug concentration to a region of low-drug concentration is referred as
A) {c}facilitated diffusion
B) pore transport '
C) active transport
D) vesicular transport.
140. The biotransformation reaction involved in metabolism of methyl dopa is
A) {c}Acetylation
B) Sulphation
C) N-oxidation
D) S-oxidation
141. In asthma/COPD patients, which type of antihypertensive drug should be avoided ?
A) {c}p-adrenergic blockers
B) Diuretics
C) Calcium channel blockers
D) ACE inhibitors.
142. Drugs having hydroxyl or carboxylic acid group can easily conjugate with
AJ sulphate
B) glycine
C) acetyl coenzyme-A
D) {c} glucuronic acid.
143. Colestipol is a/an drug.
A) HMG CoA reductase inhibitor
B) activate PPAR- α receptors
C) {c}Bile acid binding agent
D) heavy metal binding agent.
144. Rate limiting step in the biosynthesis of catecholamines is
A) formation of dopamine
B) {c}formation of dopa
C) transport of tyrosine
D) formation of noradrenaline.
145. ACE inhibitors can cause.....teratogenicity
A) Phocomelia
B) Hyperplasia
C) Phytomelia
D) {c}Hypoplasia.
146. Antidote for benzodiazepine overdose is
A) Flumazenil
B) Flupenthixol
C) Fluphenazine
D) {c}Fluoxetine.
147. Which of the NSAIDS would be of particular use in an arthritic patient who has difficulty in remembering to take his/her medication during the day ?
A) Diclofenac sodium

- B) {c}Fenoprofen
C) Ibuprofen
D) Oxaprozin.
148. The type of tissue culture used for the production of root-associated metabolites is known as
A) tissue culture
B) hairy root culture
C) two-phase system culture
D) {c}all of these.
149. The production of secondary metabolites is linked to the
A) Induction of morphological differentiation
B) topographical changes
C) {c}environmental changes
D) atmospheric changes.
150. The optimum pH of tissue culture media is
A) 5-8
B) 6-8
C) {c}5-6
D) 5 – 7
151. Botanical source of cotton is
A) Populus nigra
B) Gossypium hirsutum
C) Linum usitatissimum
D) {c}none of these.
152. Gurmar comprises the
A) stem and roots of *Gymnema sylvestre*
B) {c}leaves of *Gymnema sylvestre*
C) powdered endosperm of the seeds of *Cyamopsis tetragonoloba*
D) dried fruits of *Amml majus*.
153. From callus, root growth can be enhanced by
A) {c}Increasing Cytokinin amount than that of Auxin
B) Increasing Auxin amount than that of Cytokinin
C) adding no hormone
D) adding Gibberellins.
154. The adulterant of purple Foxglove leaves is
A) {c}Synphytum officinale
B) Cinchona officinale
C) Convallaria majalis
D) Urtica dioica.
155. Narcotine contains which of the following moieties ?
A) Phenanthrene
B) {c}Benzyl isoquinoline
C) Quinoline
D) Naphthalene.
156. The principal active constituents of which of the following drugs are dimeric glycosides ?
A) Aloe
B) {c}Senna
C) Digitalis
D) Senna and Aloe,
157. Barbaloin and Sennoside-A can be categorised as.....and.....respectively.
A) {c}C-Glycoside, O-Glycoside
B) O-Glycoside, C-Glycoside
C) C-Glycoside, N-Glycoside
D) O-Glycoside, N-Glycoside.
158. Adenine and kinetin are collectively called as.
A) Auxins
B) Gibberellins
C) {c}Cytokinin

- D) Zeatin
159. The ideal way to provide iron for a root culture would be to include in the medium.
- A) Fe₃
B) Fe₂ (SO₄)₃
C) {c}Fe EDTA
D) FeSO₄.
160. Which type of glycoside is present in aloes?
- A) O-Glycoside
B) S-Glycoside
C) N-Glycoside
D) {c}C-Glycoside
161. Keller-Kiliani is a colour test specific for the identification of
- A) Sugar Moiety
B) Glycoside Moiety
C) Deoxy Sugar Moiety
D) {c}Both (A) and (B).
162. Which of the following drugs is a natural insecticide ?
- A) {c}Pyrethrum
B) Tulsi
C) Tylopora
D) Bael
163. Absorbent cotton dissolves completely with uniform swelling in
- A) {c}60% w/w sulphuric acid
B) 90% formic acid
C) Ammoniacal copper oxide
D) Ferrous ammonium sulphate.
164. Development of Novel hybrid plant can be achieved with
- A) organ culture
B) cell-suspension culture
C) callus culture
D) {c} protoplast culture.
165. The botanical name of Aloes from South Africa (Cape variety) is
- A) Aloe barbadensis
B) {c}Aloe ferox
C) Aloe perryt
D) Aloe candelabrum.
166. Cassia senna Is cultivated in
- A) India
B) Arabia
C) Somalia
D) {c}Sudan.
167. Naphthalene glycoside isolated from senna leaves and pods is
- A) Sennoside A
B) Rhein-1 -glucose
C) Rhein-8 diglucoside
D) {c}6-hydroxymusizin glucoside.
168. Following are the chemical constituents of Brahmi except
- A) Saponins
B) {c}Glucosides
C) Alkaloid Brahmine
D) Herpes tine.
169. Senna contains
- A) C-glycosides
B) {c}O-glycosides
C) S-glycosides
D) N-glycosides.
170. Digitalis leaves should be dried below
- A) 50°C

- B) 80°C
C) {c}60°C
D) 100°C
171. Centella asiatica belongs to the family of
A) Scrophulariaceae
B) {c}Umbelliferae
C) Rosaceae
D) Araliaceae.
172. Holy basil is the synonym for
A) Methi
B) Gymnema
C) {c}Tulsi
D) Digitalis.
173. A placement for storage of products is
A) private warehouse
B) public warehouse
C) bonded warehouse
D) {c}all of these
174. Which of the following levels of material cautions against stock-out ?
A) {c}Reordering level
B) Minimum level
C) Maximum level
D) Average stock level.
175. Selection of site of a drug store depends upon
A) availability of finance
B) {c}existence of hospitals
C) safety
D) all of these,
176. Which of the following is/are objective(s) of purchasing ?
A) Purchase of right quality
B) Purchase of right quantity
C) Purchase from right source
D) {c}All of these.
177. can be considered as primary sources of drug information.
A) {c}Pharmacopoeias
B) Journals (drug based)
C) Package inserts
D) Formularies.
178. Indapamide is taken preferably in the morning because
A) exposure to sunlight helps conversion to active metabolite
B) {c}to minimize the effect of increased frequency of urination during night
C) cholesterol synthesis is least during daytime
D) cholesterol synthesis is maximum during daytime.
179. Long term storage of which one of the following vaccines demands storage at - 20° C ?
A) DPT .
B) DT
C) {c}Oral polio vaccine
D) TT.
180. In Immunization parlance, WM refers to
A) Vulnerable Vaccine Method
B) Vulnerable Vaccine Mode
C) {c}Vaccine Vial Monitor
D) Vital Vaccine Method
181. ICH means
A) {c}International Conference on Harmonisation
B) International Committee on Harmonisation

- C) International Council on Harmonisation
D) none of these.

182. The dose related adverse reaction is called as

- A) {c}Type A
B) Type B
C) Type C
D) Type D.

183. Is available on internet through the National Library of Medicine (NLM)

- A) BIOSIS
B) EMBASE
C) {c}MEDLINE
D) Science Citation Index.

184. In ABC analysis C denotes

- A) average usage value items
B) low usage value items
C) {c}costly and valuable items
D) fast moving items.

185. The drugs that show antagonistic effects in nature whereby the sensitivity of the tissues to one drug is altered by another drug, are

- A) Trimethoprim and Sulphonamide
B) Acetylcholine and Noradrenaline
C) {c}Digitalis glycosides and Diuretics
D) Warfarin and Phenobarbital.

186. The term used to describe abnormal drug response is

- A) Hypersensitivity
B) {c}Idiosyncrasy
C) Anaphylaxis
D) Teratogenicity.

187. Hospital pharmacy deals with

- A) supply of ancillary products

B) storage of biological products

C) purchase of inventory drugs

D) {c}both (A) and (B).

188. Drug causing direct liver damage is

- A) Isoniazid
B) Indomethacin
C) Phenytoin
D) {c}Aspirin.

189. Milk and antacids reduce absorption of tetracyclines by forming

- A) {c} chelation
B) complexes
C) protein binder
D) insoluble complexes.

190. Which one of the following statements is matched correctly ?

- | | | |
|-------------------|----|--|
| A) Drug abuse | -- | repeated consumption of a drug |
| B) Drug misuse | -- | use of drugs for the conditions for which they are unsuited |
| C) Drug addiction | -- | decreased response to pharmacological drugs |
| D) Drug tolerance | -- | periodic or chronic intoxication produced by repeated consumption. |

191. Medication errors include

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

192. Coffee, tea and fruit juices antagonise the efficacy of

antipsychotic drugs.

- A) Thioxantins
B) Butyrophenones
C) {c}Phenothiazines
D) Sulpiride.

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