

Pharmaceutics

- Whitfield ointment contains which of the antifungal drug
 - (a) Itraconazol
 - (b) Terbinafine
 - (c) Benzoic acid and Salicylic acid
 - (d) Ketoconazole
- Identify the incorrect match of MOA of penetration enhancer
 - (a) DMSO-Protein denaturation
 - (b) Pyrrolidones - Alter solvent nature of membrane
 - (c) Adapalene - Lipid fluidization
 - (d) Pyrrolidones - Increase drug solubility & thermodynamic activity
- Which of the following is act as supercritical fluid
 - (a) Nitrogen
 - (b) Oxygen
 - (c) Carbon-di-oxide
 - (d) Helium
- Cam tracks are used guiding the movement of
 - (a) Hopper
 - (b) Dies
 - (c) Punches
 - (d) None of these
- Which of the following is not used as cosolvent in small volume parenteral
 - (a) Glycerol
 - (b) Ethanol
 - (c) Benzyl alcohol
 - (d) All of these
- Which of the following is used for the measurement of radioactivity
 - (a) Curie meter
 - (b) Roenrgen tube
 - (c) Luminiscence detector
 - (d) Geiger-Muller counter
- A drug (200 mg dose) administered in tablet form and as intravenous injection (50 mg dose) showed AUC of 100 and 200 microgram hr/ml, respectively. The absolute availability of the drug through oral administration is
 - (a) 125%
 - (b) 250 %
 - (c) 12.5%
 - (d) 1.25%
- Commonly used concentration of benzyl alcohol in parenterals is
 - (a) 0.5%
 - (b) 1%
 - (c) 1.5%
 - (d) 2%
- Secobarbital is _____ drug
 - (a) Schedule G
 - (b) Schedule H
 - (c) Schedule Q
 - (d) Schedule X
- Occusert is a sustained delivery system of
 - (a) Latanoprost
 - (b) Phenylepinephrine
 - (c) Pilocarpine
 - (d) Tropicamide
- What is the renal clearance of a substance, if its concentration in plasma is 10 m concentration in urine is 100 mg and urine flow is 2 ml/min
 - (a) 0.02 ml/min
 - (b) 0.2 ml/min
 - (c) 2ml/min
 - (d) 20 ml/min
- Regarding the role of surfactants in pharmaceutical suspensions for oral administration which of the following statements is false
 - (a) Surfactants decrease the water contact angle of dispersed drug particle
 - (b) Surfactants promote flocculation
 - (c) Surfactants with high HLB stabilize oral suspensions
 - (d) Surfactants increase the viscosity of the continuous phase of pharmaceutical suspensions
- The Franz diffusion cell which is used for the evaluation of transdermal drug delivery systems consists of
 - (a) 1 chamber
 - (b) 2 chamber
 - (c) 3 chamber
 - (d) None of these
- In which method an order of a fixed number of items is placed every time an inventory level falls to a predetermined point
 - (a) A-B-C method
 - (b) Maximum and minimum method
 - (c) Open to-buy method
 - (d) Economic order quantity
- Methyl cellulose and similar agent are used in ophthalmic solution to
 - (a) Increase drop size
 - (b) Increase ocular contact time
 - (c) Reduce inflammation to the eye
 - (d) Reduce drop size
- As per schedule Y of the drugs and cosmetics act, the animal toxicity study requirements for marketing of a drug depends upon tentative route and duration of administration in humans. In This context, which one of the following statements is incorrect
 - (a) Single dose human use-animal toxicity for 2 weeks in 2 species
 - (b) Oral use for 2 weeks in humans animal toxicity for 4 week in 2 species
 - (c) Aerosol use by repeated use in humans- animal toxicity for 24 weeks in 2 species
 - (d) Multiple daily ocular application for short duration irregation test in 1 species for 3 weeks
- Fluctuations occurs in rate of excretion method these can be minimized by
 - (a) Wagner-Nelson method
 - (b) Sigma-minus method
 - (c) Loo Reigelman method
 - (d) Method of residuals
- Identity the non-absorbable suture
 - (a) Catgut suture
 - (b) Chromic catgut suture
 - (c) Silk suture
 - (d) Polydioxanone suture
- Dose dumping may be a general problem in the formulation of
 - (a) Soft gelatin capsules
 - (b) Suppositories
 - (c) Modified release drug products
 - (d) None of these

20. Globule size of parenteral emulsion should be
 (a) 0.1 to 0.5 um (b) 0.5-5 um
 (c) 5-10 μ m (d) None of these

21. What quantities of 95 % v/v and 45 % v/v alcohols are to be mixed to make 800 ml of 65 % v/v alcohol
 (a) 480 ml of 95 % and 320 ml. of 45 % alcohol
 (b) 320 mL of 95% and 480 mL of 45% alcohol
 (c) 440 ml of 95 % and 360 mL of 45 % alcohol
 (d) 360 mL of 95 % and 440 ml of 45 % alcohol

22. Headquarter of Bureau of Indian standards is situated at
 (a) New Delhi (b) Mumbai
 (c) Kolkata (d) Chennai

23. What is the pH of a solution containing 0.1 mole of Ephedrine and 0.01 Ephedrine hydrochloride per liter of solution? The pK_b of Ephedrine is 4.64
 (a) pH = 5.36 (b) pH = 6.36
 (c) pH = 10.36 (d) pH = 736

24. Which is used as a marker to determine total body water volume
 (a) Antipyrine (b) Mannitol
 (c) Evans blue (d) Raffinose

25. Addition of which of the following to a large volume parenteral product is not advised
 (a) Active pharmaceutical ingredient
 (b) Preservatives
 (c) Buffering agents
 (d) Tonicity adjusters

26. Eudragit S is chemically
 (a) Poly (methacrylic acid methylmethacrylate) 1.1
 (b) Methacrylic acid copolymer
 (c) Poly (methacrylic acid methylmethacrylate) 1:2
 (d) Poly (ethyl acetate, methylmethacrylate) 2:1

27. The ideal saponification value for suppository base is
 (a) 50-100 (b) 100-150 (c) 150-200 (d) 200-500

28. Chitin gets converted in to Chitosan upon
 (a) Acetylation (b) Deacetylation
 (c) Oxidation (d) Reduction

29. _____ system does not have orifice to release the drug
 (a) Elementary Osmotic Pump
 (b) L-OROS
 (c) Sandwich Osmotic Pump Tablet
 (d) Controlled Porosity Osmotic Pump Tablet

30. Drave's test is associated with measuring the efficiency of
 (a) Detergents (b) Wetting agents
 (c) Suspending agent (d) Adsorbent

31. Surface tension can be expressed in terms of
 (a) Force per unit length
 (b) Energy per unit area increase
 (c) Pressure difference across curved surface
 (d) All of the above

32. Helium Pycnometer is used to determine
 (a) Size
 (b) True density
 (c) Sedimentation rate
 (d) Surface area

33. In the rhombohedral packing percent of porosity is
 (a) 26% (b) 48% (c) 62% (d) 84%

34. Identify the wrong match pattern of DLVO theory
 (a) Primary minimum - High attraction - Irreversible coagulation
 (b) Primary maximum - High repulsion - Prevents coagulation
 (c) Secondary minimum - Weak interaction - Flocculation
 (d) None of the above

35. Stoke's formula for sedimentation velocity V is given by
 (a) $\frac{d^2(p_1-p_2)g}{18_n}$ (b) $\frac{d^2(p_1+p_2)g}{18_n}$
 (c) $\frac{d^2(p_1+p_2)g}{9_n}$ (d) $\frac{r^2(p_1-p_2)g}{18_n}$

36. The stability and shelf life of a suspension determined by
 (a) Freeze - thaw studies (b) Sedimentation
 (c) Particle size (d) Particle shape

37. Identity incorrect match
 (a) Avicel 101 - Available in powder form
 (b) Sta Rx 1500 - Has self lubricating tendency
 (c) Emdex & cellutab has excellent flow property & can be used in chewable tablet formulation
 (d) Sorbitol is hygroscopic above humidities 10%

38. Which method uses for synthesis for dendrimers
 (a) Divergent method
 (b) Reverse Micelles
 (c) Cellular Carrier method
 (d) Polymer drug conjugation

39. Viscosity of gelatin in capsule manufacturing is a measure of
 (a) Softness (b) Hardness
 (c) Cohesive strength (d) Molecular chain length

Pharmacology

40. Which of the antibiotic can cause visual damage?
 (a) Quiniodochlor (b) Chloroquine
 (c) Tetracycline (d) Chloramphenicol

41. Morphine does not cause
 (a) Constriction of pupil (b) Respiratory depression
 (c) CNS depression (d) Diarrhoea

42. Which antidepressant drug act through α_1 , blocking action
 (c) CNS depression (d) Diarrhoea

43. Which one of these combinations is MAO inhibitor
 (a) Tranylcypromin, Phenelzine, Isocarboxazid
 (b) Tranylcypromine, Phenelzine, Amitriptyline
 (c) Fluoxetine, Phenelzine, Isocarboxazid
 (d) Amoxamine, Phenelzine, Isocarboxazid

44. Following is one of the mechanisms of Cyclosporine activity
 (a) Cyclosporin selectively prevents transcription of interleukin-2

(b) Cyclosporin irreversibly prevents transcription of interleukin-2
 (c) Cyclosporin enhances the production of lymphokines by T-lymphocytes
 (d) All of the above

45. Following is an example of preformed and not lipid derived mast cell mediator of inflammatory process
 (a) LTC₄ (b) PGD₂ (c) PAF (d) Histamine

46. Vomiting reflexes in response to serotonin are mediated by receptors
 (a) 5HT₁ (b) 5HT₂ (c) 5HT₃ (d) 5HT₄

47. Name the gland that is located at the base of the throat, just inferior to the laryngeal prominence (Adam's apple)
 (a) Pituitary (b) Pineal gland
 (c) Hypothalamus (d) Thyroid

48. The histamine is formed from histidine by
 (a) Methylation (b) Decarboxylation
 (c) Acetylation (d) Esterification

49. Bosentan is
 (a) Serotonin uptake inhibitor
 (b) Endothelin receptor antagonist
 (c) Leukotrine modifier
 (d) Calcium sensitizer

50. Sitagliptins act on which of the following target
 (a) PPAR (b) Insulin receptor (c) GLP (d) DPP4

51. All of the following are common side effects of quindine administration EXCEPT
 (a) Diarrhoea (b) Nausea and vomiting
 (c) Dry mouth (d) Tinnitus

52. Monitoring of plasma drug concentration is required while using
 (a) Antihypertensive drugs (b) Levodopa
 (c) Lithium carbonate (d) MAO inhibitors

53. MacCallum's patch is seen in
 (a) Right atrium (b) Right ventricle
 (c) Left atrium (d) Left ventricle

54. Which of the following drug acts on the S-phase of cell cycle
 (a) Methotrexate (b) Chlorambucil
 (c) Paclitaxel (d) Vincristine

55. Organophosphorous insecticides are highly toxic substances which affect nervous system. Their mechanism of action is
 (a) They block the proton pump
 (b) They inhibit Na-K ATPase
 (c) They inhibit ion channels
 (d) They irreversibly bind to catalytic site of acetylcholine esterase

56. Following anthracycline antibiotic is a synthetic derivative
 (a) Daunorubicin
 (b) Doxorubicin
 (c) Idarubicin
 (d) All of these

57. _____ is expressed in both the intestinal epitheliums and the kidney
 (a) CYP2D6 (b) CYP1A1/2
 (c) CYP3A4 (d) CYP2E1

58. Following is an analogue of Amphetamine which produces anorexia without causing stimulation
 (a) Fenthruramine (b) Methyl amphetamine
 (c) Methylphenidate (d) Dextroamphetamine

59. Because Trimethoprim enters many tissue, has a larger Vd than Sulfamethoxazole therefore for obtaining optimal synergistic, which will be the correct dose ratio
 (a) Sulfamethoxazole 5: Trimethoprim 1
 (b) Trimethoprim 5: Sulfamethoxazole 1
 (c) Sulfamethoxazole 5: Trimethoprim 1/5
 (d) Trimethoprim 5: Sulfamethoxazole 1/5

60. Which is the nonnucleotide reverse transcriptase inhibitor (NNRTI)
 (a) Lamivudine (b) Nevirapine
 (c) Amantadine (d) Ribavirin

61. Pralidoxime chloride is a drug that
 (a) Reduces the vesicular stores of catecholamines in adrenergic and dopaminergic neurons
 (b) Blocks the active transport of choline into cholinergic neurons
 (c) Reactivates cholinesterases that have been inhibited by organophosphate cholinesterase inhibitors
 (d) Stimulates the activity of phospholipase C with increased formation of inositol triphosphate

62. Hemorrhagic cystitis caused by
 (a) 5 FU (b) Methotrexate
 (c) Doxorubicin (d) Cyclophosphamide

63. Which of the following drug is the first choice in status epilepticus?
 (a) Benzodiazepine (b) Phenytoin
 (c) Thiopentone and propofol (d) All of these

64. In Gilles de la Tourett's syndrome which drug is used
 (a) Halothane (b) Haloperidol
 (c) Sulpride (d) Clozapine

65. Didanosine can best be described as
 (a) Antiprotozoal
 (b) Reverse transcriptase inhibitor
 (c) Protease inhibitor
 (d) Beta-lactamase inhibitor

66. Compounds that have both TXA, synthetase inhibition as well as TXA, receptor- blocking activity
 (a) Dazoxiben (b) Ridogrel
 (c) Moxonidine (d) Aspirin

67. The ultralente insulin preparation is administered by which route
 (a) L.V. (b) Oral administration (c) I.M (d) S.C

68. Which of the following diuretic agents may produce hypokalemic alkalosis but is a very useful drug in the treatment of volume-dependent hypertension
 (a) Spironolactone (b) Triamterene
 (c) Amiloride (d) Chlorothiazides

69. G-Protein receptors are
 (a) Monomeric (b) Dimeric
 (c) Trimeric (d) Tetrameric

70. Isradipine is
 (a) 1, 4 dihydropyridine (b) Benzothiazepine
 (c) Arylalkyl amine (d) Piperidine dione

71. The adrenergic receptors found in fatty tissues is
 (a) β_1 (b) β_2 (c) β_3 (d) β_1, β_2

72. Brahmi has
 (a) Pentacyclic Triterpenoid saponin glycoside
 (b) Diterpenoid saponin glycoside
 (c) Steroidal non-saponin glycoside
 (d) Tetracyclic triterpenoid saponin glycoside

73. Sanguinarine belongs to the subgroup of
 (a) Morphinans (b) Benzyl isoquinolines
 (c) Phthalide isoquinolines (d) Benzophenanthrenes

74. All of the following are leaf constants EXCEPT
 (a) Vein-islet number
 (b) Vein- termination number
 (c) Stomatal number
 (d) Leaf fiber

75. The antibacterial activity of garlic oil is due to
 (a) Allicin (b) Allin
 (c) Allyl propyl disulphide (d) Diallyl disulphid

76. Colchicine is synthesized from
 (a) Tyrosine (b) Tryptophan
 (c) Ornithine (d) Lysine

77. Polyploidy is induced through
 (a) Irradiation (b) Mutagenic chemicals
 (c) Ethylene (d) Colchicine

78. Dover's powder used as a diaphoretic contains
 (a) Ipecac & Opium
 (b) Ipecac, Senna & Cinchona
 (c) Opium, Ipecac & Cinchona
 (d) All of these

79. Match the following phytochemicals with their source and use

1. Shatavrin	[P] Buckwheat and citrus fruits, strengthens capillary walls
2. Resveratrol	[Q] Broccoli and cabbage, protects against bladder cancer
3. Glucosinolates	[R] Purple grape, anti-inflammatory, anticancer
4. Rutin	[S] Asparagus, galactogogue

(a) 1 -[S], 2 -[R], 3 -[Q], 4 -[P]
 (b) 1 -[S], 2 -[Q], 3 -[R], 4 -[P]
 (c) 1 -[R], 2 -[P], 3 -[S], 4 -[Q]
 (d) 1 -[Q], 2 -[R], 3 -[S], 4 -[P]

80. Quinine present in highest amount in
 (a) Calisaya
 (b) Officinalis
 (c) Ledgeriana
 (d) Succirubra

81. Meristematic tissues have following characteristics EXCEPT

(a) They do not have any capacity for multiplication
 (b) The cells are small & isodiametric in nature
 (c) The cells are thin walled with prominent nucleus
 (d) The cells are compactly arranged without any intercellular spaces

82. What is the composition of Frohde's reagent

(a) Conc. H_2SO_4 + Sodium molybdate
 (b) $FeCl_3$ Solution
 (c) $KClO_3$ Solution + NH_3
 (d) Glacial acetic acid + NH_3 Solution

83. Which of the following is an example of peptide alkaloid

(a) Reserpine (b) Lysergic acid
 (c) Vincristin (d) Scopolamine

84. Halphen's test is for the detection of

(a) Sesame oil (b) Argemone oil
 (c) Cotton seed oil (d) Olive oil

85. Quinine differs from cinchonidine in its structure by having

(a) One Hydroxyl group (b) One Methoxy group
 (c) One Methyl group (d) One Epoxide group

Pharmaceutical Chemistry

86. Reactants in Skraup synthesis for quinoline are

(a) Aniline, nitrobenzene, glycerol
 (b) Aniline and glycerol
 (c) Nitrobenzene and glycerol
 (d) None of these

87. Craig plot is used in

(a) Drug designing
 (b) Protein structure determination
 (c) Nucleic acid structure determination
 (d) Carbohydrate structure determination

88. The IUPAC name of the compound $(CH_3)_2CHCH_2Cl$

(a) 2-methyl-3-chloropropane
 (b) 1-chloro-3-methyl butane
 (c) 1-chloropentane
 (d) 2-methyl-4-chlorobutane

89. 2, 4-dichloro benzoic acid and furfurylamine are starting product for synthesis of

(a) Furosemide (b) Bumetanide
 (c) Chlorthalidone (d) Chlorthiazide

90. Carboxylic acids and esters can be reduced to corresponding alcohols by the use of

(a) $LiAlH_4$ (b) $NaBH_4$
 (c) $Zn/Hg/HCl$ (d) Sn/HCl

91. 3-(2-hydroxyethylidene)-7-oxo-4-oxa-1-azabicycloheptane-2-carboxylic acid is

(a) Clavulanic acid
 (b) Sulbactam
 (c) Imipenem
 (d) Cephradine

92. Which of the following is present in tak as an impurity
 (a) Mg (b) Al (c) Na (d) Fe

93. 2-naphthyl-N-methyl (3-methylphenyl) thiocarbamate is IUPAC name of
 (a) Tropicamide (b) Fluconazole
 (c) Clotrimazole (d) Tolnaftate

94. 1, 2, 4-trioxane ring is found in which of the following antimalarial
 (a) Artemisinin (b) Proguanil
 (c) Cycloguanil (d) Halofantrine

95. Which of the following compounds exhibit geometrical isomerism
 (a) 1-pentene (b) 2-methyl-2-pentene
 (c) 2-pentene (d) 2-methyl-2-butene

96. The conversion of acetamide to methylamine by the reaction of Br_2 / KOH is an example of
 (a) Cannizzaro reaction (b) Esterification
 (c) Hofmann reaction (d) Bromoform reaction

97. What is the synthetic precursor of Chloramphenicol?
 (a) 4-nitro acetophenone (b) 4-chloro acetophenone
 (c) 4-amino acetophenone (d) 4-hydroxy acetophenone

98. What is the IUPAC name of the following compound
 (a) Bicyclo [2.2.2] octane
 (b) Tricyclo [2.2.2] octane
 (c) Bicyclo (2.2.0) octane
 (d) Bicyclo [2.2.1] heptanes



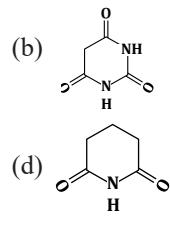
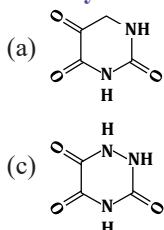
99. Basic ring present in Moricizine is
 (a) Phenodiazepine (b) Phenoxazone
 (c) Phenothiazine (d) Benzothiazepine

100. In which rearrangement reaction, Isocyanate is formed
 (a) Curtius rearrangement (b) Lossen rearrangement
 (c) Both (a) and (b) (d) None of these

101. Which of the following is false statement for $\text{S}_\text{N}1$ reaction
 (a) Follows first order kinetics
 (b) Absence of racemization
 (c) Rearrangement
 (d) $3^\circ > 2^\circ > 1^\circ$

102. Choose the FALSE statement for BECKMANN rearrangement
 (a) Conversion of amide to amine
 (b) Conversion of aldoxime/ketoxime to N-substituted amide
 (c) Group anti to the OH group that migrate from carbon to nitrogen
 (d) Rearrangement occur in presence of an acid

103. Identify the structure of barbituric acid



104. Codeine differ in structure from Morphine by
 (a) N-methyl group (b) Acetyl group at C_1 and C_6
 (c) $-\text{OC}_2\text{H}_5$ group (d) $-\text{OCH}_3$ group

105. Isotopes differ in
 (a) The number of protons (b) The valency number
 (c) The chemical activity (d) The number of neutrons

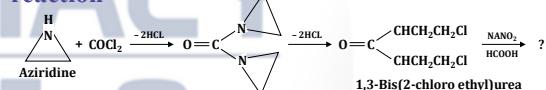
106. Elimination reaction via conjugate base (E1cb) which reaction intermediate will form
 (a) Carbocation (b) Carbanion
 (c) Free radical (d) All of these

107. Anticholinesterase agent quaternary ammonium compound, intermediate-duration carbonylating agent, used in cobra bite and in myasthenia gravis
 (a) Physostigmine (b) Neostigmine
 (c) Edrophonium (d) Tacrine

108. In the Reimer-Tiemann reaction reacts with phenol to give the ortho-formylated product
 (a) Carbene (b) Carbocation
 (c) Carbanion (d) Free radical

109. Ethylene oxide is starting material synthesis of
 (a) Mechlorethamine (b) Chlorambucil
 (c) Ifosfamide (d) Cyclophosphamide

110. Which of the following drug will synthesize in given reaction



(a) Carmustine (b) Busulfan
 (c) Lomustine (d) Somustine

111. A hypochromic shift is a displacement of a band
 (a) To a longer wavelength
 (b) To a shorter wavelength
 (c) An increase in absorption intensity
 (d) A decrease in absorption intensity

112. o, m, p-isomers can be differentiated on the basis of
 (a) Chemical shift (b) Coupling constant
 (c) Extinction coefficient (d) Dipole moment

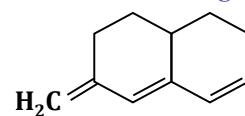
113. Titration in Volhard's method is done in the presence of
 (a) Nitric acid (b) Sulfuric acid
 (c) Hydrochloric acid (d) Acetic acid

114. Back titration is done for

(a) Strong acid weak base titration
 (b) Weak acid base titration
 (c) Weak acid strong base titration
 (d) Strong acid base titration

115. In IR spectra, C-H stretching of aldehyde at
 (a) 2850-2750 cm^{-1} (b) 1750-1725 cm^{-1}
 (c) 2250-2150 cm^{-1} (d) 2100 cm^{-1}

116. Determine the maximum wavelength of the given structure



117. The mass spectrum of a compound with an approximate MW 137 shows two equally intense. Peaks at m/z 136 and 138. What does the suggest

- (a) The compound is alkyl iodide
- (b) The compound is alkyl bromide
- (c) The compound is alkyl chloride
- (d) The compound is aryl fluoride

Other Subjects

118. What is bio synthetic precursor of natural Penicillin

- (a) Proline
- (b) Leucine
- (c) Valine
- (d) Hydroxyproline

119. Which of the following statements is true about DNA polymerase

- (a) DNA polymerase can synthesize mRNA in the 3' to 5' direction
- (b) DNA polymerase can synthesize DNA in the 5' to 3' direction
- (c) DNA polymerase can synthesize mRNA in the 5' to 3' direction
- (d) DNA polymerase can synthesize DNA in the 3' to 5' direction

120. Antibody which is responsible for agglutination of blood is

- (a) IgA
- (b) IgD
- (c) IgE
- (d) IgM

121. The lipoprotein with the fastest electrophoretic mobility and the lowest TG content is

- (a) VLDL
- (b) HDL
- (c) LDL
- (d) Chylomicrons

122. Arrange the given acids in increasing order as per the number of carbons present in them

[P] Capric [Q] Caprylic [R] Caproic [S] Lauric

- (a) [P] < [Q] < [R] < [S]
- (b) [R] < [Q] < [P] < [S]
- (c) [R] < [Q] < [P] < [S]
- (d) [Q] < [P] < [R] < [S]

123. Which of the following vitamin is present in Coenzyme A

- (a) Thiamine
- (b) Pyridoxine
- (c) Nicotinic acid
- (d) Pantothenic acid

124. Techniques used in the development of "biotechnological drugs" include

[P] Gene splicing
[Q] Preparation of monoclonal antibodies
[R] Lyophilisation

- (a) [P] only
- (b) [R] only
- (c) [P] and [Q] only
- (d) [Q] and [R] only

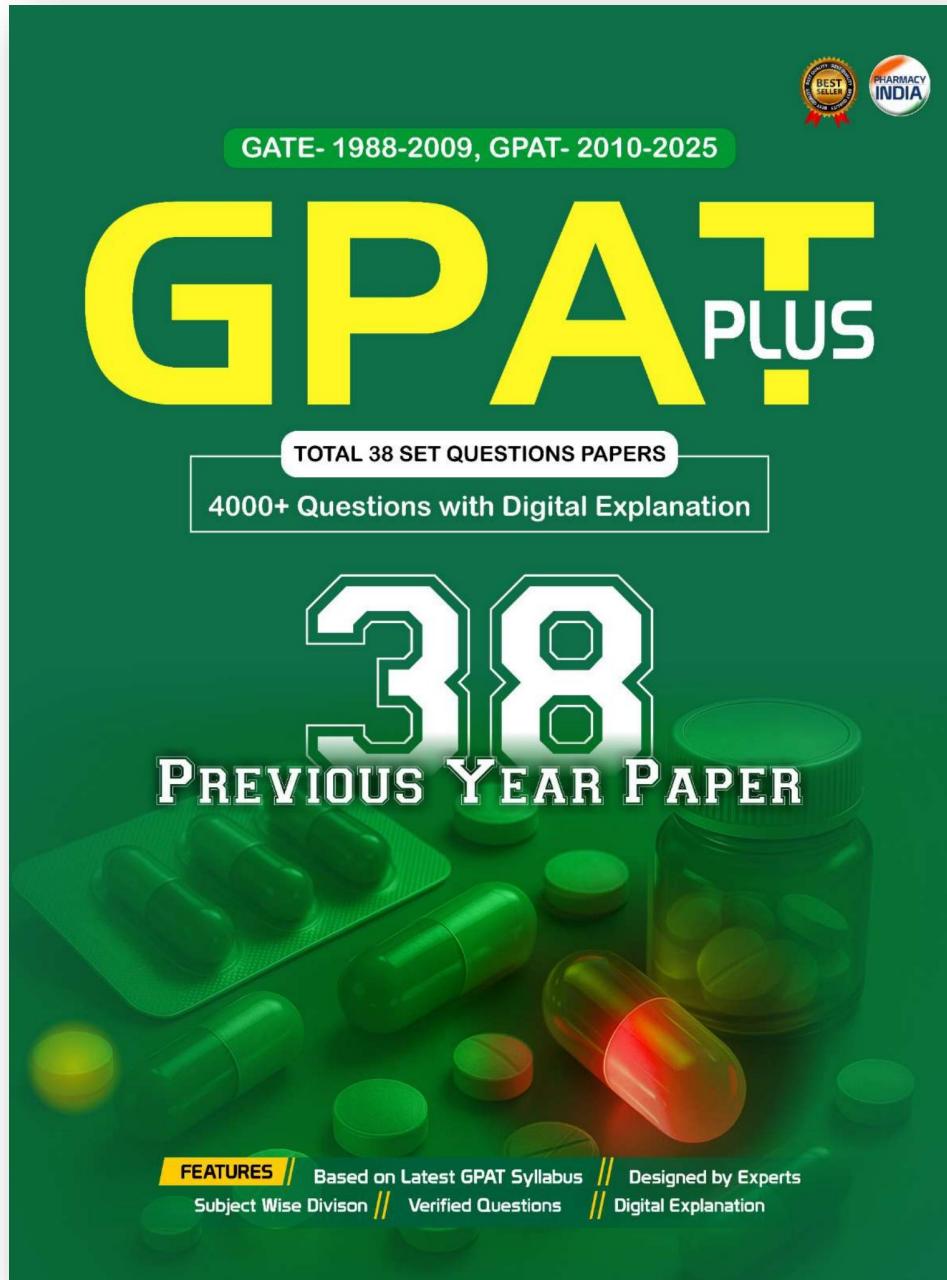
125. Which of the following is valid comparison of Live attenuated vaccines versus killed inactivated vaccines

- (a) Hypersensitivity reactions are uncommon among inactivated vaccines
- (b) Live attenuated vaccines are more effective in children
- (c) Live attenuated vaccines are not suitable for pediatric use
- (d) Replication of the organisms in a live attenuated vaccine increases the stimulation of the immune system thereby requiring a lower dose

Answer Key

1-c	2-d	3-c	4-c	5-c	6-d	7-c	8-d	9-d	10-c
11-d	12-d	13-b	14-d	15-b	16-d	17-b	18-c	19-c	20-a
21-b	22-a	23-c	24-a	25-b	26-c	27-c	28-b	29-d	30-b
31-d	32-b	33-a	34-d	35-a	36-a	37-d	38-a	39-d	40-b
41-d	42-d	43-a	44-a	45-d	46-c	47-d	48-b	49-b	50-d
51-c	52-c	53-c	54-a	55-d	56-c	57-c	58-a	59-a	60-b
61-c	62-d	63-a	64-b	65-b	66-b	67-d	68-d	69-c	70-a
71-c	72-a	73-d	74-d	75-a	76-a	77-d	78-a	79-a	80-c
81-a	82-a	83-b	84-a	85-b	86-a	87-a	88-b	89-a	90-a
91-a	92-d	93-d	94-a	95-c	96-c	97-a	98-a	99-c	100-c
101-b	102-a	103-b	104-d	105-d	106-b	107-b	108-a	109-a	110-a
111-d	112-b	113-a	114-b	115-a	116-b	117-b	118-c	119-b	120-d
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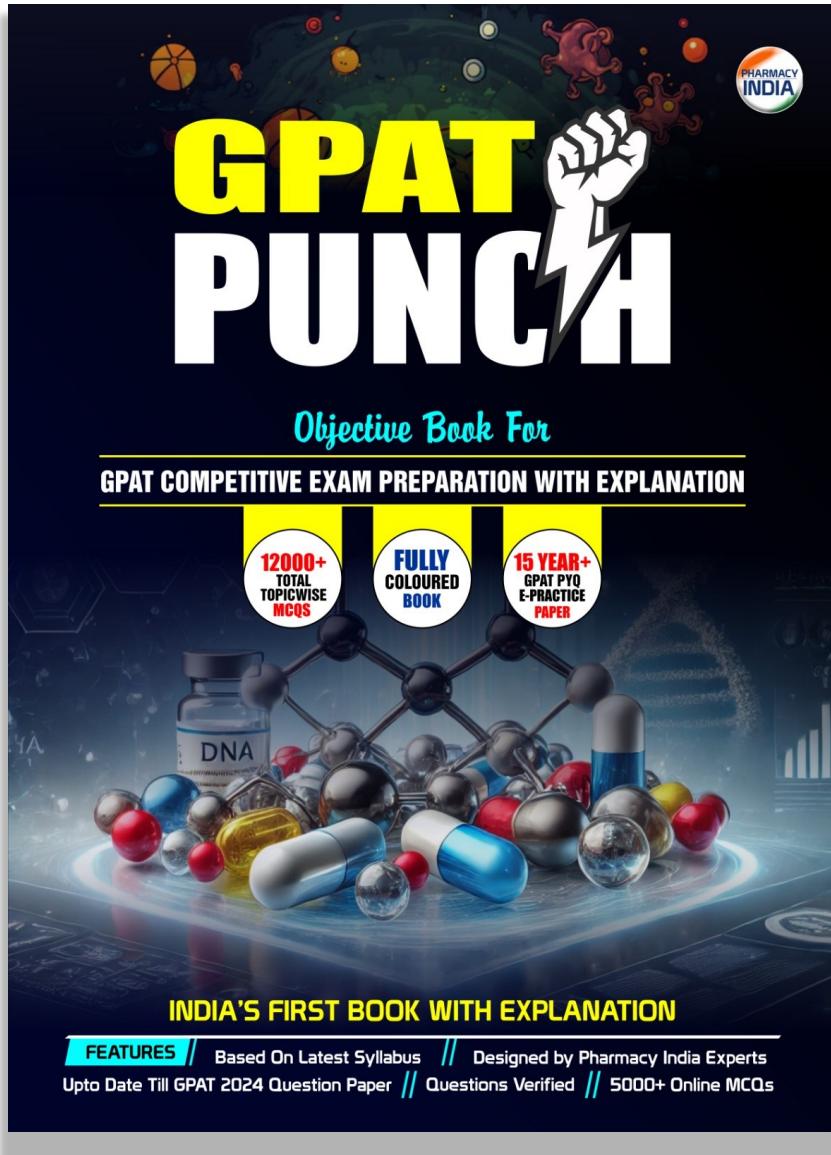
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