

GPAT-2020

Pharmaceutics

1. **Hydrated proton is called**
 - (a) Water proton
 - (b) Hydronium ion
 - (c) Oxonium ion
 - (d) Proton pump
2. **Burow'ssoluti on is**
 - (a) Aluminium acetate solution strong
 - (b) Calcium phosphate solution strong
 - (c) Ammonium acetate solution strong
 - (d) Calcium hydroxide solution strong
3. **When the concentration of an aqueous sodium chloride solution has the same colligative properties as the solution in question, the value so obtained is known as**
 - (a) Normality
 - (b) Isotonicity value
 - (c) Molarit
 - (d) Molality
4. **As per the Drugs and Cosmetics Act-1940, if a drug is not labelled in prescribed manner it is a**
 - (a) Spurious drug
 - (b) Substandard drug
 - (c) Adulterated drug
 - (d) Misbranded drug
5. **The general purpose soda lime glass is not a suitable material for fabricating the container for**
 - (a) Parenteral
 - (b) Oral solutions
 - (c) Liquids for external use
 - (d) Dry powders
6. **The mechanism by which fluorides inhibit dental caries is**
 - (a) By increasing susceptibility to acid
 - (b) By increasing the sensitivity of tooth enamel
 - (c) Decreased acid solubility of enamel
 - (d) Increased acid solubility of enamel
7. **When a solid forms a gel more readily when gently shaken or otherwise sheared than when allowed to form the gel while the material is kept at rest, the phenomenon is known as**
 - (a) Thixotropy
 - (b) Rheopexy
 - (c) Negative rheopexy
 - (d) Anti thixotropy
8. **The dispersion of coarse material by shearing in a narrow gap between and a rapidly rotating cone is caused by a static cone**
 - (a) Colloid Mill
 - (b) Electrical Dispersion
 - (c) Peptisation
 - (d) Ultrasonic Irradiation
9. **Which of the following is not a fundamental (primary) factor considered for selection of a location for the construction of pharmaceutical or chemical plant**
 - (a) Soil
 - (b) Market for products
 - (c) Labour supply
 - (d) Raw materials
10. **The drug concentration between Minimum effective concentration (MEC) and maximum safe concentration (MSC) is called**
 - (a) Toxic range
 - (b) Therapeutic index
 - (c) Therapeutic ratio
 - (d) Therapeutic range
11. **Violin gut is obtained from intestine of**
 - (a) Horse
 - (b) Cat
 - (c) Sheep
 - (d) Camel
12. **In capsule making the Bloom strength of gelatin is proportional to molecular weight of the gelatin and is a measure of the;**
 - (a) Cohesive strength of the solvent molecules
 - (b) Cohesive strength of the crosslinking that occurs between gelatin molecules
 - (c) Adhesive strength of gelatin with dipping pins
 - (d) Adhesive strength of gelatin with other polymer
13. **Dimethyl sulfoxide acts as penetration enhancer for topical formulations by**
 - (a) Increasing solubility
 - (b) Denaturing proteins
 - (c) Increasing transepidermal loss
 - (d) Altering solvent nature of membrane
14. **Relative sweetness of sucrose, to saccharin**
 - (a) 1: 200
 - (b) 1:500
 - (c) 1: 100
 - (d) 1:400
15. **Choose the wrong statement from the following with regard to Amorphous solids**
 - (a) Usually they are anisotropic
 - (b) They tend to flow when subjected to sufficient pressure
 - (c) Considered as super cooled fluids
 - (d) They do not have definite melting point
16. **Following statement is more accurate with respect to limitations of Arrhenius relationship for stability prediction**
 - (a) Order of degradation will alter at higher temperature
 - (b) Equal moisture concentrations will be mentioned at different temperatures
 - (c) Less relative humidity and oxygen solubility at higher temperature
 - (d) Same degradation mechanisms may predominate at different temperatures
17. **According to distribution law, select the appropriate expression for the concentration of a solute when it exists as monomer in solvent A and dimer in solvent B**
Assume
C = concentration of solute in solvent A
C = concentration of solute in solvent B
 α = degree of dissociation

$$(a) K = \frac{C_A}{2 \times \sqrt{C_B}}$$

$$(b) K = \frac{C_A}{C_B \times (1-\alpha)}$$

$$(c) K = \frac{C_A}{C_B \times (2-\alpha)}$$

$$(d) K = \frac{C_A}{\sqrt{C_B}}$$
18. **Which of the following will result in very closest value to the Glomerular Filtration Rate (GFR)**

(a) Insulin Clearance
 (b) Albumin Clearance
 (c) Measure of Blood Urea Nitrogen (BUN)
 (d) Creatinine Clearance

19. Increasing the proportion of the disperse phase of an emulsion by more than 60% may lead to
 (a) Cracking (b) Frothing
 (c) Phase inversion (d) Creaming

20. The polymorphs exhibit the following different properties EXCEPT
 (a) X-ray crystal and diffraction patterns
 (b) Melting point
 (c) Solubilities
 (d) Chemical structures

21. When adhesive attractions between molecules of different species exceeds cohesive attraction between like molecules, the deviation according to Ranult's law is said to be
 (a) Partial (b) Positive (c) Neutral (d) Negative

22. The complexation of Quinine with hexyl is an example of absorption by
 (a) Convective transport (b) Facilitated transport
 (c) Pinocytosis (d) Ion pair transport

23. An excipient Ludipress used for liquid Dosage form is a coprocessed excipient of
 (a) Dextrose monohydrate Kollidon 30
 (b) Lactose monohydrate + Kollidon 30
 (c) Lactose monohydrate+ Kollidon 30+ Kollidon CL
 (d) Dextrose monohydrate Kollidon 30+ Kollidon CL

24. The unequal attractive forces acting on the molecules at the surface of liquid gas inter face when compared with molecular forces in the bulk of the liquid is due to
 (a) Absence of adhesive force of attraction
 (b) Less adhesive force of attraction
 (c) Absence of cohesive force of attraction
 (d) Less cohesive force of attraction

25. Human Serum Albumin has a molecular weight of
 (a) 34,000 (b) 65,000 (c) 44,000 (d) 59,000

26. Drug products that contain the same therapeutic moiety but as different salts, esters or complexes are called as
 (a) Therapeutic equivalents
 (b) Pharmaceutical equivalents
 (c) Pharmaceutical alternative
 (d) Therapeutic alternatives

27. Fraction of administered dose (which may be -n form of an ester of salt) of active drug is termed as
 (a) Activity factor (b) Formulation factor
 (c) Intrinsic factor (d) Salt factor

28. Standards to be complied under D & C act -1940 for drugs imported, manufactured, stocked and exhibited for sale or distribution are covered under
 (a) Schedule M
 (b) Second Schedule
 (c) First Schedule
 (d) Schedule L

29. In which year India signed General Agreement on Trade and Tariffs (GATT) including Trade Related Intellectual Property Rights (TRIPS)
 (a) 1996 (b) 1994 (c) 1992 (d) 1990

30. In International organization for standardization (ISO), standard pertaining to quality system model for quality assurance in production, installation and servicing is given under
 (a) ISO 9002 (b) ISO 9000
 (c) ISO 9001 (d) ISO 9004

31. In solid-solid mixing, large scale continuous type of mixer is
 (a) Sigma blender (b) Ribbon blender
 (c) Zigzag blender (d) Twin shell blender

32. The Crystal form of Sulphacetamide is
 (a) Rhombohedral (b) Orthorhombic
 (c) Monoclinic (d) Triclinic

33. As per the definition of D and C Act. Gudaku (rubbed against human teeth) is considered as
 (a) Food (b) Drug (c) Sweetening gum (d) Cosmetic

34. Centistoke is the CGS unit for the following property
 (a) Surface tension (b) Coefficient of viscosity
 (c) Fluidity (d) Kinematic viscosity

35. Method of Study Drug Distribution pattern is
 (a) Mass spectrophotometry
 (b) Nuclear magnetic resonance
 (c) Fluorimetry
 (d) UV-visible spectrophotometry

36. Pyrogens present in containers can be destroyed by heating the containers at
 (a) 121°C for 15 mins (b) 121°C for 30 mins
 (c) 210°C for 4 h (d) 210°C for 1 h

37. The version of GMP in India that describe requirement of factory premises for manufacture of cosmetics
 (a) Schedule-M (b) Schedule-M-III
 (c) Schedule-M-11 (d) Schedule M-1

38. The temperature dependence and the theory of viscosity is expressed by the following
 (a) Stern-Volmer equation
 (b) Arrhenius equation of chemical kinetics
 (c) Higuchi equation
 (d) Gibbs's equation

39. The 'Crenulation' effect on the cell wall is caused by solutions and this effect is
 (a) Hypertonic, reversible
 (b) Hypotonic, reversible
 (c) Hypotonic, irreversible
 (d) Hypertonic, irreversible

40. Type II glass containers are
 (a) Suitable for alkaline solutions
 (b) Most inert glasses and shows high hydrolytic resistance
 (c) Suitable for most acidic and neutral aqueous preparations
 (d) Suitable for non-aqueous preparations

41. Who was the Chairman of the Drugs Enquiry Committee which was established in the year 1927
 (a) B. Mukherjee (b) Joseph Bhore
 (c) S.S. Bhatia (d) R.N. Chopra

42. When six suppositories containing 20 percent of morphine hydrochloride in Theobroma oil are to be prepared, which of the following statement is correct? (Given: Displacement value of morphine hydrochloride is 1.5, weight of each suppository is 1g)
 (a) The displacement value of morphine hydrochloride is to be considered
 (b) The displacement values of both morphine hydrochloride and Theobroma oil are to be considered
 (c) The displacement value of morphine hydrochloride is to be ignored
 (d) The displacement value of Theobroma oil is to be considered

43. While studying solid state physicochemical properties, the packing property of drug include
 (a) Heat capacity (b) Solubility
 (c) Refractive index (d) Entropy

44. Lakes of Dyes available commercially contain maximum up to _____ of pure dye
 (a) 15% (b) 10% Pharmacopoeia
 (c) 25% (d) 50%

45. As per European technical guide, substance stored at 25°C for 24 hours at 80% RH, called very hygroscopic when increase in weight is
 (a) 0.29% w/w and <15% w/w
 (b) > 0.2% w/w and < 20% w/w
 (c) > 15% w/w
 (d) 0.2% w/w and < 29% w/w

Pharmacology

46. Following pairs represent antibiotic and its source. Identify the correct pair
 (a) Griseofulvin: Bacteria
 (b) Polyenes: Fungi
 (c) Colistin: Fungi
 (d) Macrolides: Actinomycetes

47. Mechanical digestion in mouth in which food is mixed with saliva is and the movement of food from mouth into the stomach is
 (a) Mastication, deglutition
 (b) Deglutition, propulsion
 (c) Segmentation, mastication
 (d) Segmentation, propulsion

48. Rosacea is a skin condition that affect
 (a) Teenage people
 (b) Old age people
 (c) Only woman
 (d) Adults between the age of 30-60

49. A typical long bone consists of following parts EXCEPT
 (a) The diaphysis (b) The trabecule
 (c) The epiphyses (d) The periosteum

50. Antifungal agent 5-fluorocytosine is converted to its active metabolite 5-fluorouracil by one of the following fungal enzyme
 (a) Cytosine deacetylase (b) Cytosine reductase
 (c) Cytosine demethylase (d) Cytosine deaminase

51. One of the following is not a chemical or histochemical change that occurs in infarction of heart
 (a) Decrease in sodium (b) Glycogen depletion
 (c) Influx of calcium (d) Increase in lactic acid

52. EXCEPT one of the following pairs represent drugs used in the treatment of glaucoma and their primary mechanism. Select the wrong pair from the following
 (a) Topical prostaglandin analogues: Increase aqueous outflow
 (b) Topical beta-adrenergic blockers: Decrease aqueous outflow
 (c) Topical miotics: Increase aqueous outflow
 (d) Topical carbonic anhydrase inhibitors: Decrease aqueous formation

53. The mechanism of antiepileptic effect of Lamotrigine is by
 (a) Inhibition of glutamate release
 (b) Blockade of NMDA receptors
 (c) Inhibition of Na^+ channels
 (d) Inhibition of Ca^{++} channels

54. Cotrimoxazole is combination of trimethoprim with sulfamethoxazole. Which of the following statement is correct about Cotrimoxazole
 (a) Cotrimoxazole is contraindicated during pregnancy
 (b) Most effective ratio of trimethoprim: Sulfamethoxazole in plasma is 20:1
 (c) Trimethoprim : sulfamethoxazole are administered in a dose ratio of 5: 1 to achieve optimal synergistic effect
 (d) Cotrimoxazole is ineffective in treating respiratory tract infections

55. Mitomycin C is an antibiotic isolated from
 (a) Streptomyces peucetius
 (b) Streptomyces verticillus
 (c) Streptomyces antibioticus
 (d) Streptomyces caespitosus

56. Identify the diuretic which causes hyperuricemia, tend to raise serum calcium and also causes magnesium depletion
 (a) Acetazolamide (b) Furosemide
 (c) Mannitol (d) Chlorothiazide

57. Ion trapping is an important process in drug distribution with potential therapeutic benefit. It is defined as on more basic side
 (a) An acidic drug will accumulate on the more basic side of the membrane and a basic drug
 (b) An acidic drug will accumulate on the more acidic side of the membrane and a basic drug on more basic side
 (c) An acidic drug will accumulate on the more basic side of the membrane and a basic drug on more acidic side
 (d) An acidic drug will accumulate on the more acidic side of the membrane and a basic drug on more acidic side

58. One of the following statement with respect to carbachol is NOT correct Identify

- (a) It can be administered orally
- (b) It possess both muscarinic and nicotinic action
- (c) It is more susceptible to hydrolysis as compared to acetylcholine
- (d) The amino group decreases electrophilicity of the carbonyl group

59. Which three of the following are physiological effects of ganglionic stimulating agents

[P] Stimulation of sympathetic ganglia and the adrenal medulla leading to cardiovascular responses
 [Q] Initial transient stimulation and then a more persistent depression of all autonomic ganglia
 [R] Marked depression of CNS leading to analgesia
 [S] Chronic exposure causes a marked increase in the density of nicotinic receptors contributing tolerance and dependence.
 [T] Combined activation of parasympathetic ganglia and cholinergic nerve ending by nicotine results in increased tone and motor activity of the bowel
 [U] Inhibition of salivary and bronchial secretions that is followed by stimulation

- (a) [P], [R] and [S]
- (b) [Q], [S] and [U]
- (c) [Q], [R] and [T]
- (d) [P], [Q] and [S]

60. Mekxicam belongs to which class of Non-steroidal Anti-inflammatory Drugs (NSAIDs)

- (a) Preferential COX-2 inhibitor
- (b) Selective COX-1 inhibitor
- (c) Preferential COX-1 inhibitor
- (d) Selective COX-2 inhibitor

61. Which one of the following is not the property of osmotic diuretics

- (a) Undergo limited reabsorption by the renal tubule
- (b) Are relatively inert pharmacologically
- (c) They inhibit carbonic anhydrase
- (d) Freely filtered at the glomerulus

62. Two pore domain K ions channels are opened by which one of the following categories of anaesthetic

- (a) Barbiturates
- (b) Benzodiazepines
- (c) Opioid analgesics
- (d) Halogenated inhalation anaesthetic

63. Which one is NOT an opioid receptor

- (a) Gamma
- (b) Kappa
- (c) Mu
- (d) Delta

64. Identify antiarrhythmic drug that increases duration of QT wave and decreases the sinus rate, whereas it has no effect on QRS complex

- (a) Lidocaine
- (b) Amiodarone
- (c) Verapamil
- (d) Quinidine

65. Auto rhythmicity is present in which of the following group of tissues

- (a) Skeletal muscle and cardiac muscle
- (b) Skeletal muscle and visceral smooth muscle
- (c) Cardiac muscle and neuronal tissue
- (d) Cardiac muscle and visceral smooth muscle

66. d-tubocurarine produces skeletal muscle relaxation by inhibiting

- (a) Ganglionic nicotinic receptors
- (b) Muscarinic receptors
- (c) Nicotinic receptors in neuromuscular junction
- (d) Alpha-adrenergic receptors

67. Which of the following is not one of the triad effects of adrenaline leading to rise in blood pressure

- (a) A direct myocardial stimulation that increases the strength of ventricular contraction
- (b) An increased heart rate (positive chronotropic action)
- (c) Vasoconstriction in many vascular bed specially in precapillary resistance vessels of skin
- (d) Stimulation of presynaptic alpha-2 adrenoreceptor leading to increase sympathetic tone

68. Which of the following drugs possesses Antiplatelet effects

- (a) Erythropoietin
- (b) Urokinase
- (c) Desmopressin
- (d) Clopidogrel

69. Which one of the following is a organ specific (localized) autoimmune disease

- (a) Grave's disease
- (b) Scleroderma
- (c) Rheumatoid arthritis
- (d) Polyarteritisnodosa

70. Which of the following Neurotransmitter is formed on demand and act immediately

- (a) Acetylcholine
- (b) Histamine
- (c) Nitric oxide (NO)
- (d) Adrenaline

71. Which one of the following statement is true for cancer cells

- (a) Oncoproteins produced by cancer cells act a neighboring cells
- (b) Cancer cells require stimulation by growth factors
- (c) Cancer cells are highly sensitive to growth inhibitory signals
- (d) Cancer cells produce Oncoproteins in the absence of growth factors or external stimuli

72. In one of the following situations metabolic acidosis does not occur

- (a) Uncontrolled diabetes mellitus
- (b) Therapeutic administration of acetazolamide
- (c) Production of less amount of lactic acid
- (d) Chronic renal failure

73. In the transplant rejection the clinical features of graft-versus-host reaction following-Except includes

- (a) Dermatitis, diarrhoea
- (b) Fever, weight loss
- (c) Intestinal malabsorption
- (d) Rheumatoid arthritis

74. Which one of the following is not a renal osteodystrophy (type of bone disease associated with chronic kidney disease)

- (a) Adynamic bone disease
- (c) Osteomalacia
- (c) Secondary hypoparathyroidism
- (d) Mixed renal osteodystrophy

75. Identify phase of clinical trial having following features

[P] Trial is conducted on about 3000 patients
 [Q] Purpose of trial is therapeutic confirmation

[R] Safety and tolerability is evaluated on wider scale
 [S] Completion of trial is followed by New Drug Application (NDA)
 (a) Phase-III (b) Phase-I (c) Phase IV (d) Phase-II

76. Which one of the following is not affected in respiratory tuberculosis
 (a) Pleural cavity (b) Mediastinal lymph nodes
 (c) Pericardium (d) Larynx

Pharmacognosy

77. The major property of Ayurvedic herbs "Rasa" indicates
 (a) Taste (b) Post digestive effect
 (c) Potency (d) Physicochemical properties

78. A fixed oil when added to an equal volume of ethanol, clear liquid is obtained; on cooling at 0°C and on storage for three hours, the liquid remains clear such fixed oil is identified as
 (a) Castor Oil (b) Soyabean oil
 (c) Neem oil (d) Evening Primrose oil

79. In Abe the mucilage containing parenchymatous cells are present in
 (a) Central parenchymatous region
 (b) Pericyclic cells
 (c) Epidermis
 (d) Vascular bundles

80. Which of the following powder shows the greatest degree of dustability
 (a) Talcum powder (b) Lycopodium powder
 (c) Fine charcoal (d) Potato Starch

81. Dragendorff's reagent is
 (a) Potassium iodate
 (b) Potassium bismuth iodide
 (c) Potassium mercuric iodide
 (d) Potassium picrate

82. The fundamental principle "law of similia" falls under which therapy
 (a) Syurveda (b) Siddha
 (c) Homoeopathy (d) Aroma therapy

83. In the process of extraction ethanol is used as a solvent for
 (a) Sucrose (b) Waxes (c) Alkaloids (d) Gums

84. Nicotine from tobacco is an alkaloid which is
 (a) Oxygen free liquid (b) Semisolid
 (c) Crystalline (d) Oxygen free solid

85. In shikimic acid pathway, chorismite mutase converts chorismic acid to
 (a) Carotenoids (b) Phytol
 (c) Prephenate (Prephenic acid) (d) Gutta

86. Plants which are not differentiated into root, stem and leaves are
 (a) Plant aginalles
 (b) Principes
 (c) Thallophyte
 (d) Bromeliales

87. In colour test for alkaloids colchicine with mineral acids gives

(a) Blue colour (b) Red colour
 (c) Yellow colour (d) Violet colour

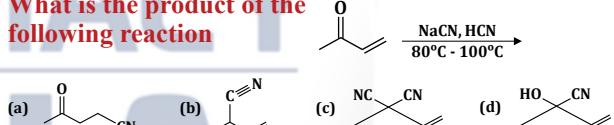
88. In yam, the presence of, irregular arrangement of the fibres, the ends of which often project from the surface is because of
 (a) Absence of linters (b) Absence of combing
 (c) Presence of impurities (d) Improper drying

Pharmaceutical Chemistry

89. Electron releasing groups stabilizes free radicals by
 (a) Positive inductive (+1) effect
 (b) Negative Mesomeric (-m) effect
 (c) Positive Mesomeric (m) effect
 (d) Negative inductive (-1) effect

90. Which of the following rearrangement involves migration of a group from carbon to electron deficient nitrogen
 (a) Willgerodt rearrangement
 (b) Baeyer villiger rearrangement
 (c) Pinacol-pinacolone rearrangement
 (d) Beckmann rearrangement

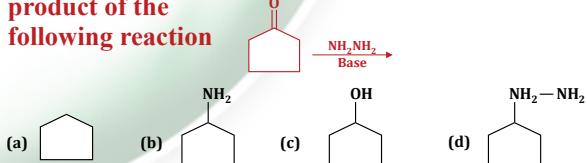
91. What is the product of the following reaction



92. This 4-amino quinoline antimalarial drug marketed as R. S isomer, has two trifluoromethyl moieties at position 2' and 8' and no electronegative substituent either at 6 or 7' positions is

(a) Mefloquine (b) Chloroquine
 (c) Primaquine (d) Amodiaquine

93. product of the following reaction



94. The second law of thermodynamics states that whenever a spontaneous process takes place, it is accompanied by an increase in the total energy of the universe. The equation that satisfies the above law is

(a) $\Delta S_{\text{universe}} = S_{\text{system}} + \Delta S_{\text{surrounding}}$
 (b) $S_{\text{system}} = \Delta S_{\text{universe}} + \Delta S_{\text{surrounding}}$
 (c) $\Delta S_{\text{universe}} = \Delta S_{\text{surrounding}} - S_{\text{system}}$
 (d) $\Delta S_{\text{universe}} = S_{\text{system}} - \Delta S_{\text{surrounding}}$

95. Molar heat capacity of a system is defined as

(a) The amount of heat required to raise temperature of one mole of the system by one Kelvin
 (b) The amount of heat required to decrease temperature of one mole of the system by one Kelvin
 (c) The amount of heat required to decrease temperature of one mole of the system by one Fahrenheit

(d) The amount of heat required to raise temperature of one mole of the system by one Fahrenheit

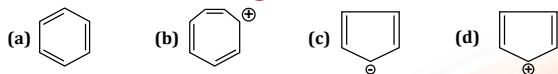
96. Riboflavin chemically is

- (a) 6, 7-dimethyl isoalloxazine
- (b) 6, 7-diethyl isoalloxazine
- (c) 8, 9-dimethyl isoalloxazine
- (d) 8, 9-diethyl isoalloxazine

97. Which of the following groups stabilizes carbocation in electrophilic aromatic substitution

- (a) -CN, -SO₃H
- (b)-COOH, -CHO
- (c) -NH₂, -OH
- (d) -N(CH₃)₃₊, -NO

98. Which of the following is Anti-aromatic



99. The Nitration of quinoline gives a mixture of

- (a) 3-nitro-and 6-nitroquinolines
- (b) 2-nitro-and 7-nitroquinolines
- (c) 5-nitro-and 8-nitroquinolines
- (d) 2-nitro-and 4-nitroquinolines

100. The specific reagents used in skraup synthesis of Quinoline are

- (a) Benzaldehyde, aniline, sulphuric acid and Nitrobenzene
- (b) Glycerol, aniline, sulphuric acid and Nitrobenzene
- (c) Benzaldehyde, Acetal of aminoethanol and Nitrobenzene
- (d) Glycerol Acetal of aminoethanol and Nitrobenzene

101. The weakly acidic nature of warfarin is attributed to the presence of

- (a) Methylene protons on substitution at 3rd position
- (b) Proton of hydroxyl group at 4th position
- (c) Proton on chiral carbon
- (d) Aromatic protons of Coumarin ring

102. Walden inversion or complete reversal of stereochemistry occurs in one of the following substitution reaction

- (a) S_NAr reactions
- (b) S_Ni reaction
- (c) S_N2 reactions
- (d) S_N1 reactions

103. Propanone and 2-hydroxy propene are

- (a) Position isomers
- (b) Rotamers
- (c) Chain Isomers
- (d) Tautomers

104. When an electron with charge 1.60 x 10 coulombs is moved through a potential difference of 1 volt, the energy expended or released is called as

- (a) 1 joul
- (b) 1 coulomb
- (c) 1 erg
- (d) 1e volt

105. The condensation of an active methylene compound with formaldehyde and an amine to form β -amino carbonyl compound is known as

- (a) Mannich reaction
- (b) Knoevenagel condensation
- (c) Stobbe condensation
- (d) Beckmann rearrangement

106. The heterocyclic nucleus present in Nitrofurantoin are

- (a) 3-nitro furan and imidazole 2, 4-dione
- (b) 2-nitro furan and imidazoline-2-one
- (c) Furan and pyrrole
- (d) 2-nitro furan and imidazole 2, 4-dione

107. The principle of liquid-liquid extraction is

- (a) Partition
- (b) Solubility
- (c) Adsorption true or accepted
- (d) Separation

108. Closeness of a measured value to the value is known as

- (a) Accuracy
- (b) Deviation
- (c) Precision
- (d) Bias

109. The principle of gas-liquid chromatography is

- (a) Partition chromatography
- (b) Affinity chromatography
- (c) Adsorption chromatography
- (d) Ion exchange chromatography

110. What is the approximate chemical shift ranges for protons attached to aldehydic groups

- (a) 4-8 %
- (b) 9.5-10.0 8
- (c) 6-7.9 8
- (d) 1.5-3.5 8

111. The solvent used in NMR spectroscopy with the highest level of deuteration among these is

- (a) Deutero acetone
- (b) Deuterium oxide
- (c) Deutero methanol
- (d) Deutero chloroform

112. Gbar source in infra-red spectrophotometer is

- (a) Silicon carbide rod
- (b) Rhodium wire heated in ceramic
- (c) Tungsten filament
- (d) Nichrome wire

Other Subjects

113. If bio monosaccharides differ in their structure around a single carbon atom, they are called as

- (a) Epimers
- (b) Dimers
- (c) Trioses
- (d) Trimmers

114. Which of the following is the example of "Invert Sugar"

- (a) Sucralose
- (b) Lactulose
- (c) Lactose
- (d) Sucrose

115. An aklopentose can be converted into an aklohexose by

- (a) Rults degradation method
- (b) Wohl method
- (c) Kiliani-Fischer synthesis
- (d) Hoffmann degradation method

116. During the denaturation cycle in polymerase chain reaction the temperature is raised

- (a) 90-98°C
- (b) 60-68°C
- (c) 70-78°C
- (d) 80-88°C

117. The following gram positive bacteria species is positive for the coagulase test (a test for the ability of bacteria to cause blood plasma to clot)

- (a) S. Epidermidis
- (b) S. Aureus
- (c) S. Saprophyticus
- (d) S. Lactis

118. This fungus is also known as opportunistic pathogen, often isolated from warm-blooded animals

- (a) Aspergillus niger
- (b) Penicillium notatum
- (c) Penicillium chrysogenum
- (d) Candida albicans

119. The Acidic polymers of Ribitol/Glycerol phosphate present in Gram positive microorganism are known as

- (a) Polysaccharides
- (b) Teichoic acids
- (c) Peptidoglycans
- (d) Lysozymes

120. Which of the following Microorganism is used for the effective synthesis of interferon

- (a) Micrococcus Luteus
- (b) Bacillus Subtilus
- (c) Saccharomyces Cerevisiae
- (d) Pseudomonas Aureginosa

121. Production of Acetyl methyl carbinol can be detected by which of the following test

- (a) Voges-proskauer test
- (b) Indole test
- (c) Citrate utilization test
- (d) Methyl red test

122. Following amino acid does not exhibit optical isomerism

- (a) Serine
- (b) Ahnine
- (c) Glycine
- (d) Leucine

123. Following is the important sterol in faeces formed from cholesterol by bacteria in lower Intestine

- (a) 7- α -Hydroxy cholesterol
- (b) Coprostanol
- (c) 7-Dehydrocholesterol
- (d) Lithocholic acid Filtrate from a culture of

124. SCHICK Test Toxin is a sterile

- (a) Rickettsia prowazeki
- (b) Mycobacterium Diphtheriae
- (c) Corynebacterium Diphtheriae
- (d) Actinobacillus malki

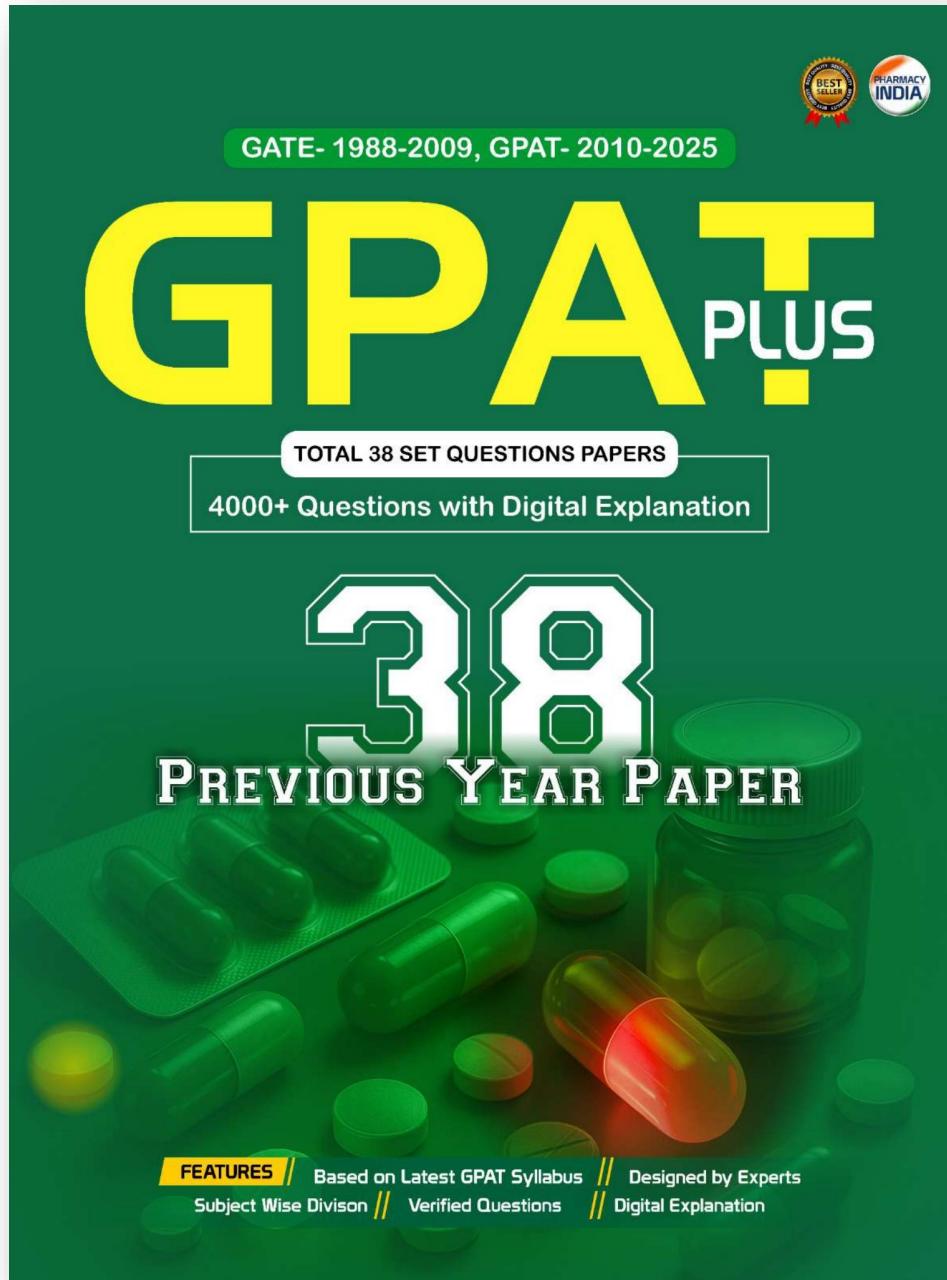
125. Which one of the following is NOT the biochemical marker of all death

- (a) Phospholipase
- (b) Creatine kinase
- (c) Lipase
- (d) Amylase

Answer Key

1-b	2-a	3-b	4-d	5-a	6-c	7-b	8-a	9-a	10-d
11-c	12-b	13-b	14-b	15-a	16-c	17-d	18-d	19-c	20-d
21-d	22-d	23-c	24-b	25-b	26-c	27-d	28-b	29-b	30-a
31-c	32-b	33-d	34-d	35-a	36-c	37-c	38-b	39-a	40-c
41-d	42-c	43-c	44-d	45-c	46-d	47-a	48-d	49-b	50-d
51-a	52-b	53-c	54-a	55-d	56-d	57-c	58-c	59-d	60-a
61-c	62-d	63-a	64-b	65-d	66-c	67-d	68-d	69-a	70-c
71-d	72-d	73-d	74-c	75-a	76-c	77-a	78-a	79-a	80-b
81-b	82-c	83-c	84-a	85-c	86-c	87-c	88-b	89-a	90-d
91-a	92-a	93-a	94-a	95-a	96-a	97-c	98-d	99-c	100-b
101-b	102-c	103-d	104-d	105-a	106-d	107-a	108-a	109-a	110-b
111-a	112-a	113-a	114-d	115-c	116-a	117-b	118-d	119-b	120-c
121-a	122-c	123-b	124-c	125- a					

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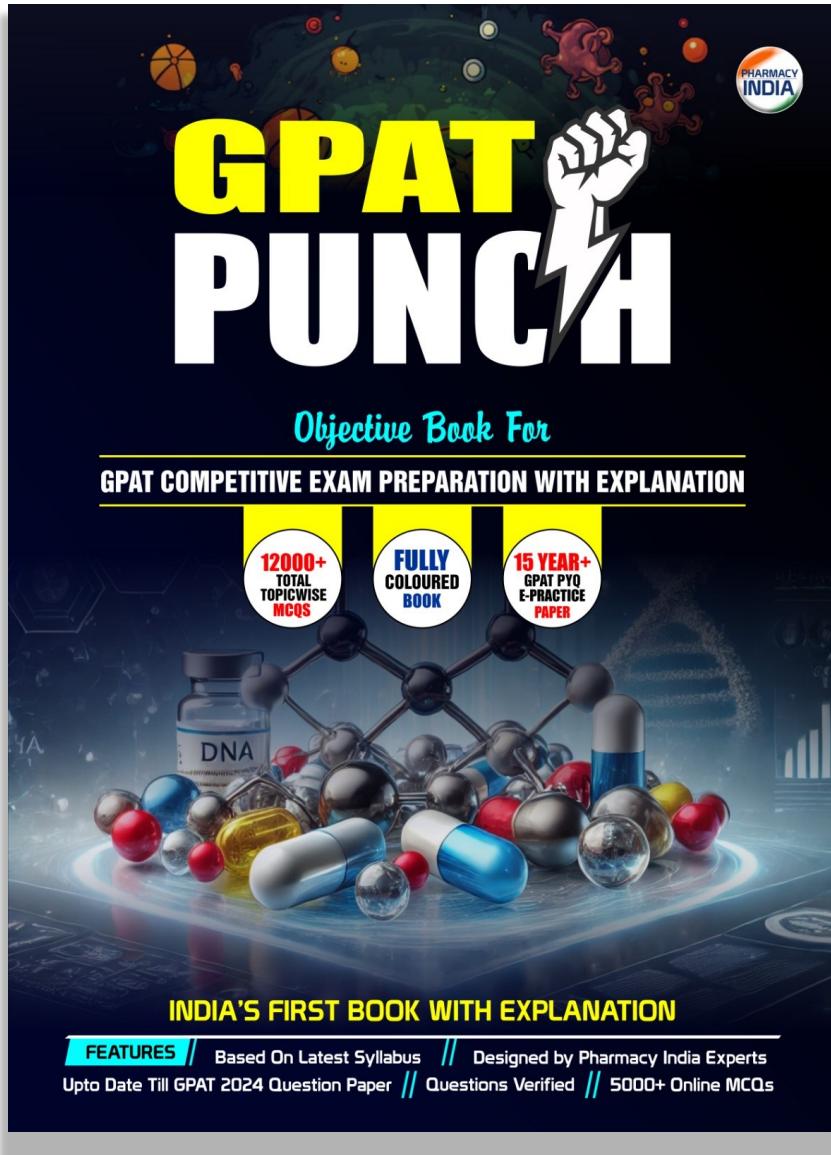
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