

## GPAT QUESTION-PAPER 2026

1. Most active estrogen is

- (a) Estrone
- (b) Estradiol
- (c) Progesterone
- (d) Estriol

Correct Answer : (b) Estradiol

2. The diuretic action of Triamterene on the distal convoluted tubule and collecting duct is due to inhibition of

- (a) Sodium channel
- (b) Potassium channel
- (c) Calcium channel
- (d) Chloride channel

Correct Answer : (a) Sodium channel

3. Adverse drug reaction of cyclophosphamide is a hemorrhagic cystitis is minimized by

- (a) MESNA
- (b) Leucovorin
- (c) Decazoxazone
- (d) Allopurinol

Correct Answer : (a) MESNA

4. Ritodrine and Isoxsuprine work as a tocolytic by the

- (a) Sympatholytic
- (b) Sympathomimetic
- (c) Parasympathomimetic
- (d) Parasympatholytic

Correct Answer : (b) Sympathomimetic

5. Quinidine and procainamide acts by which mechanism of action

- (a) Block inactive Sodium ion channel
- (b) Multi channel blocking agent
- (c) Block L- type  $\text{Ca}^+$  ion channel
- (d) Block sodium ion in open state

Correct Answer : (d) Block sodium ion in open state

6. Match the following drugs with their mechanism of action

- (A) Sumatriptan - I)  $5\text{HT}_4$  agonist
- (B) Ketanserin - II)  $5\text{HT}_3$  antagonist
- (C) Ondansetron - III)  $5\text{HT}_1$  agonist
- (D) Cisapride - IV)  $5\text{HT}_2$  antagonist

- (a) A - (I), B - (II), C - (III), D - (IV)
- (b) A - (II), B - (I), C - (III), D - (IV)
- (c) A - (III), B - (IV), C - (II), D - (I)
- (d) A - (IV), B - (II), C - (III), D - (I)

Correct Answer : (c) A - (III), B - (IV), C - (II), D - (I)

7. Assertion (A): Estrogen in oral contraceptive can cause venous thromboembolism.

Reason (R): Estrogen reduces plasminogen from liver.

- (a) Assertion is true, Reason is false
- (b) Assertion is false, Reason is true
- (c) Both Assertion and Reason are true
- (d) Both Assertion and Reason are false

Correct Answer : (a) Assertion is true, Reason is false

8. A first generation anti tubercular drug which cause visual defect and red green color blindness

- (a) Ethambutol
- (b) Rifampicin
- (c) Streptomycin

(d) Isoniazid

Correct Answer : (a) Ethambutol

9. Calcium channel blocker belongs to dihydropyridine group

(a) Verapamil

(b) Diltiazem

(c) Amlodipine

(d) Bepridil

Correct Answer : (c) Amlodipine

10. Cyclosporin act as an immunosuppressant:

(a) TNF- $\alpha$  neutralizer

(b) IL-2 Calcineurin inhibitor

(c) DNA Synthesis inhibitor

(d) Inhibition of  $\beta$ -lymphocyte

Correct Answer : (b) IL-2 Calcineurin inhibitor

11. A 15 year old boy presents with cough, sneezing and bronchoconstriction. His shows eosinophilia. This condition is most likely associated with which type of hypersensitivity reaction

(a) IgE-mediated hypersensitivity

(b) IgG-mediated cytotoxic hypersensitivity

(c) Immune complex-mediated hypersensitivity

(d) Delayed-type hypersensitivity

Correct Answer : (a) IgE-mediated hypersensitivity

12. Interaction of Methotrexate with sulfonamides (such as Sulfamethoxazole and Sulfisoxazole) may lead to which type of drug interaction

(a) Reduced absorption of methotrexate

(b) Methotrexate direct folate antagonist

(c) Displacement of methotrexate from plasma protein-binding sites

(d) Increased renal excretion of methotrexate

**Correct Answer :** (c) Displacement of methotrexate from plasma protein-binding sites

13. Complications associated with administration of Clozapine, an antipsychotic drug

(a) Extrapyramidal syndrome

(b) Blood dyscrasia

(c) Hepatotoxicity

(d) Hemolytic anaemia

**Correct Answer :** (b) Blood dyscrasia

14. Long-term administration of NSAIDs may induce edema and increase inflammation due to

(a) Due to increase adrenal secretion

(b) Due to prostaglandin synthesis

(c) Due to Stimulation of sympathetic neurons

(d) Increased histamine release

**Correct Answer :** (b) Due to prostaglandin synthesis

15. The Lesion at myelin on Nerve cell due to impair

(a) Salvation

(b) Neurotransmitter synthesis

(c) Release from synaptic vesicles

(d) Generation of action potential at Hillock

**Correct Answer :** (d) Generation of action potential at Hillock

16. Which drug produces Reactive Oxygen Species (ROS) in microbial cells leading to DNA damage

(a) Albendazole

(b) Thiabendazole

(c) Metronidazole

(d) Nitazoxanide

Correct Answer : (c) Metronidazole

17. The clinical trial phase I, 60% of patients respond to Drug A, 50% of patients respond to Drug B, and 20% of patients respond to both Drug A and Drug B. how many randomly patients can response the drug

- (a) 0.10000000000000001
- (b) 0.9
- (c) 0.5
- (d) Not defined

Correct Answer : (b) 0.9

18. Action potential in nerve fibers is unidirectional primarily due to which of the following mechanisms

- (a) Immediate decrease in extracellular potassium after repolarization
- (b) Activation of sodium channels during depolarization
- (c) Inactivation of voltage-gated sodium channels during the refractory period
- (d) Increased membrane permeability to ions

Correct Answer : (c) Inactivation of voltage-gated sodium channels during the refractory period

19. Nerve impulse transmits through

- (a) Dendrites → Soma → Axon → Axon terminal
- (b) Dendrites → Axon terminal → soma → Axon
- (c) Axon terminal → Dendrites → Soma → Axon
- (d) Axon → Dendrites → Soma → Axon terminal

Correct Answer : (a) Dendrites → Soma → Axon → Axon terminal

20. Maximum amount of air that can be inhaled into the lungs with full force

- (a) Total lungs capacity
- (b) Tidal volume
- (c) Inspiratory volume
- (d) Vital capacity

Correct Answer : (c) Inspiratory volume

21. Endocrine cells present in intestinal mucosa layer secretes

- (a) Secretin & Cholecystokinin
- (b) Gastrin & pepsin
- (c) Pepsin & Cholecystokinin
- (d) Gastrin & Somatostatin

Correct Answer : (a) Secretin & Cholecystokinin

22. Which of the cells are involved in reduced bone repair in elderly patients

- (a) Osteoblast
- (b) Osteoclast
- (c) Osteocyte
- (d) Chondrocyte

Correct Answer : (a) Osteoblast

23. The part of bone that withstands bending stress and provides a structural framework is

- (a) Spongy Bone of Trabeculae
- (b) Compact bone Osteon
- (c) Bone marrow
- (d) Epiphysis

Correct Answer : (b) Compact bone Osteon

24. The hormone that helps estrogen that prepares endometrium for the egg is implantation of fertilized egg is

- (a) Progesterone hormone
- (b) Luteinizing Hormone
- (c) Follicle Stimulating Hormone
- (d) Gonadotrophin hormone

Correct Answer : (a) Progesterone hormone

25. Impulse that transmit signals from one neuron to another by a gap is called as synapse This triggers the release of the chemical known as

- (a) Hormone
- (b) Leukotrienes
- (c) Neurotransmitters
- (d) Prostaglandin

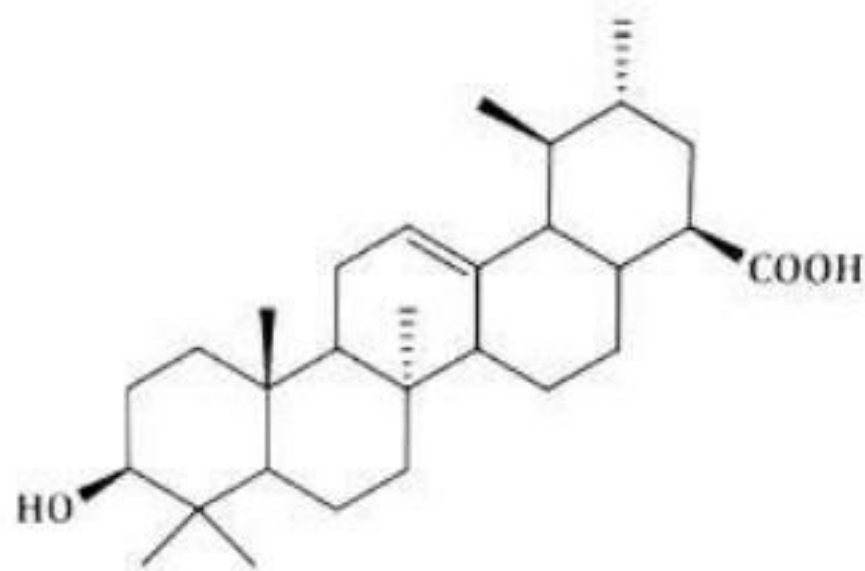
Correct Answer : (c) Neurotransmitters

26. Which type of necrosis is most commonly associated with bacterial infection and pus formation

- (a) Fat Necrosis
- (b) Liquefactive necrosis
- (c) Caseous necrosis
- (d) Coagulation Necrosis

Correct Answer : (b) Liquefactive necrosis

27. Identify the class of compound that contains the following structure



- (a) Anthraquinone class
- (b) Steroid class
- (c) Triterpenoid class
- (d) Isothiocyanate class

Correct Answer : (c) Triterpenoid class

28. Which of the following tests of aloe is based upon fluorescence

- (a) Cupraloin test
- (b) Borntrager's test

- (c) Bromine test
- (d) Schoenteten test

Correct Answer : (d) Schoenteten test

29. Why does caffeine not give precipitate with the general alkaloidal test

- (a) Because it is a purine derivative
- (b) Because it is an imidazole derivative
- (c) Because it is an indole derivative
- (d) Because it is an acridine derivative

Correct Answer : (a) Because it is a purine derivative

30. WHO recommends the use of Chromatographic techniques in herbal medicine for

- (a) Detection of moisture content
- (b) Detection of microbial load
- (c) Fingerprint profiling
- (d) Packaging analysis

Correct Answer : (c) Fingerprint profiling

31. Ginkgo biloba should be avoided with

- (a) Antihistaminic
- (b) Antidiabetic
- (c) Anticoagulant
- (d) Antacid

Correct Answer : (c) Anticoagulant

32. Taxol is primarily semi synthesized from which of the following precursors

- (a) 10-Deacetylbaccatin III
- (b) Geranyl geranyl diphosphate
- (c) 7- $\beta$ -Xylosyl-10-deacetyltaxol
- (d) Taxadiene

Correct Answer : (a) 10-Deacetylbaccatin III

33. The flowchart showing crop rotation, composting, and biological pest control represents

- (a) Conventional farming
- (b) Biodynamic agriculture
- (c) Hydroponics
- (d) Integrated farming

Correct Answer : (b) Biodynamic agriculture

34. Lycopene, an antioxidant, is classified as

- (a) Flavonoids
- (b) Hydroxycinnamate
- (c) Xanthophyll
- (d) Carotene

Correct Answer : (d) Carotene

35. Most strained cycloalkane is

- (a) Cyclopropane
- (b) Cyclobutane
- (c) Cyclohexane
- (d) Cyclopentane

Correct Answer : (a) Cyclopropane

36. Beckmann Rearrangement involves

- (a) Alcohol → Alkene
- (b) Oxime → Amide
- (c) Acid → Amide
- (d) Aldehyde → Ketone

Correct Answer : (b) Oxime → Amide

37. Benzene when oxidized with  $V_2O_5$  in the presence of air gives

- (a) Benzoic acid
- (b) Benzaldehyde
- (c) Maleic anhydride
- (d) Salicyl aldehyde

Correct Answer : (c) Maleic anhydride

38. Most stable conformation of ethane

- (a) Staggered
- (b) Skew
- (c) Eclipsed
- (d) Gauche

Correct Answer : (a) Staggered

39. Which of the following is the most acidic carboxylic acid

- (a) Formic acid
- (b) Butanoic acid
- (c) Acetic acid
- (d) Propanic acid

Correct Answer : (a) Formic acid

40. Phenol reacts with bromine ( $\text{Br}_2$ ) to give presence of  $\text{CS}_2$  in low temperature

- (a) m-Bromophenol
- (b) p-Bromophenol
- (c) o,p-Dibromophenol
- (d) 2,4,6-tribromophenol

Correct Answer : (b) p-Bromophenol

41. In limit test of arsenic internal diameter of glass tube

- (a) 5.5 mm
- (b) 6.5 mm
- (c) 7.5 mm

(d) 8.5 mm

Correct Answer : (b) 6.5 mm

42. Which of the following is most reactive towards electrophilic substitution

(a) Furan

(b) Thiophene

(c) Pyrrole

(d) Pyridine

Correct Answer : (c) Pyrrole

43. No. of covalent bonds in constituent atoms of Butane and Hexane

(a) 10 and 16

(b) 11 and 17

(c) 13 and 19

(d) 14 and 20

Correct Answer : (c) 13 and 19

44. Which of the following represents the acidic component of a phosphate buffer system <https://www.validcollege.com>

(a) Dihydrogen phosphate ion

(b) Disodium phosphate ion

(c) Sodium hydrogen phosphate ion

(d) Sodium dihydrogen phosphate ion

Correct Answer : (a) Dihydrogen phosphate ion

45. The Dakin reaction is used to prepare which of the following compounds

(a) Phenol

(b) Benzaldehyde

(c) Benzoic acid

(d) Catechol

Correct Answer : (d) Catechol

46. The number of asymmetric carbon atoms present in oxytetracycline is

- (a) 4
- (b) 5
- (c) 6
- (d) 7

Correct Answer : (c) 6

47. The configuration at C-8 and C-9 position of quinine is

- (a) 8R,9S
- (b) 8S,9R
- (c) 9S,8S
- (d) 9R,8R

Correct Answer : (b) 8S,9R

48. Nalidixic acid belongs to which heterocyclic nucleus

- (a) Quinoline-4-one
- (b) Quinoline-6-one
- (c) Naphthyridine derivatives
- (d) Anthracene derivatives

Correct Answer : (c) Naphthyridine derivatives

49. Which indicator is used for the determination of magnesium and calcium in complexometric titration

- (a) Methyl orange
- (b) Eriochrome Black T
- (c) Starch
- (d) Phenolphthalein

Correct Answer : (b) Eriochrome Black T

50. Which of the following effects is produced by phenothiazine

- (a) Depression of the CNS
- (b) Reduction of hepatic enzyme activity
- (c) Entirely binds with iodine
- (d) Stimulation of CNS

**Correct Answer :** (a) Depression of the CNS

51. If the Hammett equation constant ( $\sigma$ ) is negative, it indicates

- (a) Hydrophobic group
- (b) Hydrophilic group
- (c) Electron donating group
- (d) Electron accepting group

**Correct Answer :** (c) Electron donating group

52. Potassium permanganate ( $\text{KMnO}_4$ ) is called a self-indicator because

- (a) It forms a precipitate during titration
- (b) It shows purple colour at the end point
- (c) It works with starch indicator
- (d) It is colourless

**Correct Answer :** (b) It shows purple colour at the end point

53. Which of the following is the most active form of Estrane

- (a) Estrone
- (b) Estradiol
- (c) Progesterone
- (d) Androgen

**Correct Answer :** (b) Estradiol

54. The principle of nephelometry is based on

- (a) Measurement of intensity of absorbed light as a function of concentration of absorbed particles

(b) Measurement of intensity of transmitted light as a function of concentration of suspended particles

(c) Measurement of intensity of scattered light as a function of concentration of dispersed particles

(d) Measurement of intensity of scattered light as a function of path length

**Correct Answer :** (c) Measurement of intensity of scattered light as a function of concentration of dispersed particles

55. If the lipophilicity of benzodiazepines increases, what is the effect

(a) Increase in CNS penetration

(b) Increase in water solubility

(c) Increase in metabolic clearance

(d) Increase in renal excretion

**Correct Answer :** (a) Increase in CNS penetration

56. High molecular mass determined by which chromatographic technique

(a) Partition chromatography

(b) Adsorption chromatography

(c) Ion-exchange chromatography

(d) Gel chromatography

**Correct Answer :** (d) Gel chromatography

57. Fluoroquinolone antimicrobial activity drastically decreases when

(a) Fluorine substitution at the 6th position

(b) Fluorine substitution at the 7th position

(c) Addition of a double bond

(d) Addition of a ketone group

**Correct Answer :** (a) Fluorine substitution at the 6th position

58. The wave number for C=C (carbon-carbon double bond) stretching is ( $10 \times 10^5$  dyne cm)

(a)  $1820 \text{ cm}^{-1}$

(b)  $1967\text{ cm}^{-1}$

(c)  $1680\text{ cm}^{-1}$

(d)  $1537\text{ cm}^{-1}$

Correct Answer : (c)  $1680\text{ cm}^{-1}$

59. Which of the following local anaesthetics contains quinoline nucleus

(a) Dibucaine

(b) Benzocaine

(c) Tetracaine

(d) Prilocaine

Correct Answer : (a) Dibucaine

60. If concentration increased by 5 to 10 ppm then emission max will also increase, the relationship is

(a) Linear

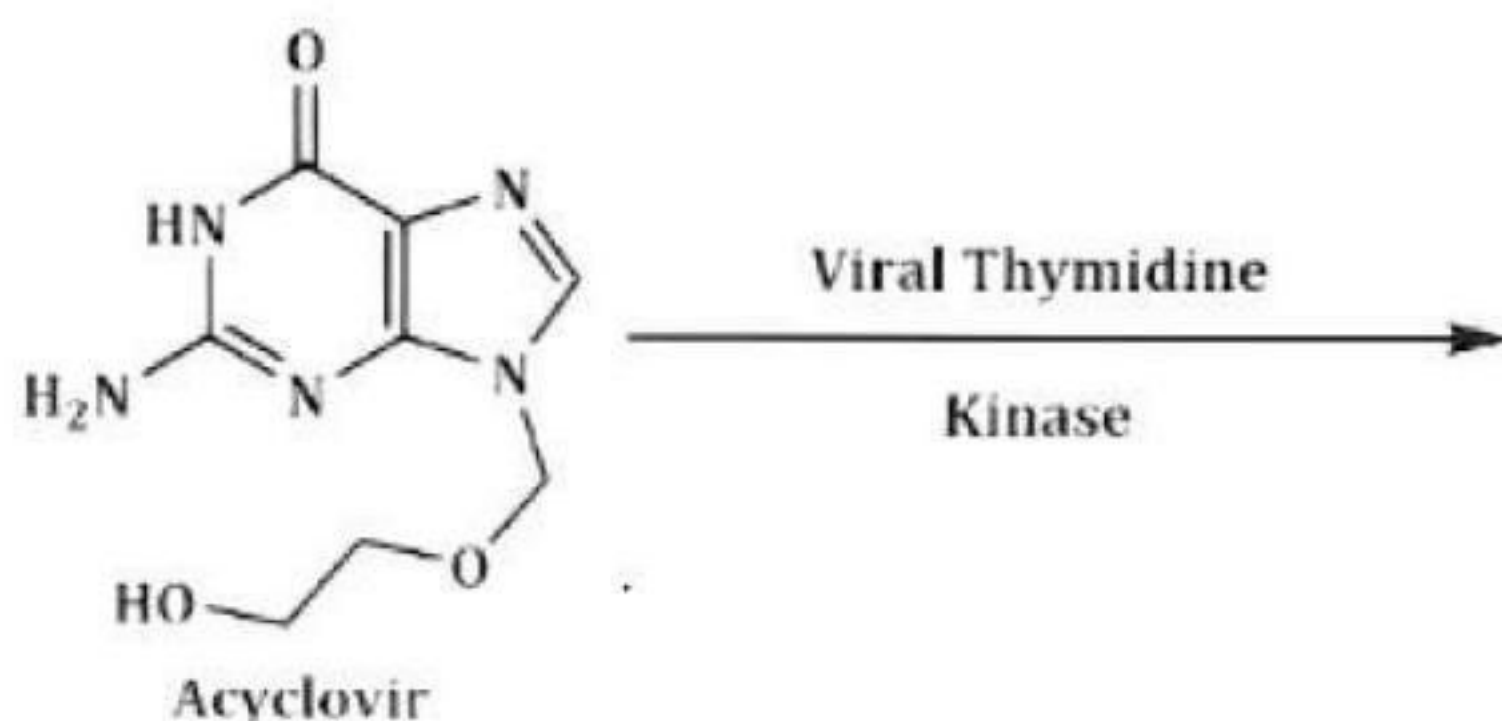
(b) Directly proportional

(c) Indirectly proportional

(d) Beer-Lambert law

Correct Answer : (b) Directly proportional

61. The conversion of acyclovir to its active nucleotide form by viral thymidine kinase involves which type of reaction



(a) Acyclovir thymidine trihydroxy phosphate, phosphorylation

(b) Acyclovir thymidine hydroxy phosphate, phosphorylation

- (c) Acyclovir phosphate, hydroxylation
- (d) Acyclovir diphosphate, hydroxylation

Correct Answer : (a) Acyclovir thymidine trihydroxy phosphate, phosphorylation

62. How many fundamental vibrational modes are present in the H<sub>2</sub>S molecule

- (a) 1
- (b) 2
- (c) 3
- (d) 4

Correct Answer : (c) 3

63. Which calcium channel blocker is Dihydropyridine derivatives

- (a) Diltiazem
- (b) Amlodipine
- (c) Verapamil
- (d) Captopril

Correct Answer : (b) Amlodipine

64. What will happen if the electron-withdrawing group at position-7 is substituted in benzodiazepines

- (a) Reduce GABA - A receptor binding
- (b) Increase Anxiolytic Activity
- (c) Reduce Protein binding
- (d) Solubility will increase

Correct Answer : (b) Increase Anxiolytic Activity

65. Iodine is sparingly soluble in water that 1 part of solute dissolve in \_\_\_\_\_ how many parts of water

- (a) 400
- (b) 4000
- (c) 100

(d) 1000

Correct Answer : (c) 100

66. According to United State Pharmacopoeia, 1 part of solute dissolves in 10-30 parts are

- (a) Freely soluble
- (b) Sparingly soluble
- (c) Slightly soluble
- (d) Soluble

Correct Answer : (d) Soluble

67. Buffer most commonly used in ophthalmic preparation as

- (a) Lactate buffer
- (b) Citrate buffer
- (c) Phosphate buffer
- (d) Acetate buffer

Correct Answer : (c) Phosphate buffer

68. Chemical penetration enhancer used in Transdermal formulation

- (a) Chitin
- (b) DMSO
- (c) HPMC
- (d) Polomex F64

Correct Answer : (b) DMSO

69. Methylene blue test is used in quality control testing of containers and closures mainly for

- (a) Clarity test
- (b) Self-sealability
- (c) Leak test / container closure integrity
- (d) Hydrolytic resistance

Correct Answer : (c) Leak test / container closure integrity

70. In pharmaceutical manufacturing, Laminar Air flow cabinet provides which class of clean air in aseptic technique

- (a) Class-10
- (b) Class-100
- (c) Class-1000
- (d) Class-10000

Correct Answer : (b) Class-100

71. Sterility testing of antibiotic-active-containing parenteral preparations that inhibit microbial growth is performed by which method

- (a) Membrane filtration method
- (b) Pour plate method
- (c) Direct inoculation method
- (d) Spread plate method

Correct Answer : (a) Membrane filtration method

72. During ampoule sealing, nitrogen flushing is used

- (a) Sterilize the product
- (b) Increase filling speed
- (c) Reduce in oxidation
- (d) Improve clarity

Correct Answer : (c) Reduce in oxidation

73. During process, Tablet thickness variation is mainly influenced by

- (a) Compression force
- (b) Die diameter
- (c) Lubricant concentration
- (d) Granule flow rate

Correct Answer : (a) Compression force

74. In the context of syrup preparation, inversion of sucrose due to excessive heating may lead to

- (a) Syrup becomes less sweet
- (b) Syrup dark in colour
- (c) Sucrose crystallizes
- (d) Viscosity less then syrup becomes solid

Correct Answer : (b) Syrup dark in colour

75. Factor that limit batch size during manufacturing soft gelatin capsules

- (a) Film coating
- (b) Drying time
- (c) Encapsulation speed
- (d) Mixing process

Correct Answer : (c) Encapsulation speed

76. During preformulation studies, a drug shows 6% moisture uptake at 75% RH and 0.5% moisture uptake at 40% RH. Which packaging is most suitable for long term stability

- (a) Amber glass bottle without desiccant
- (b) Alu-Alu blister
- (c) PVC blister pack
- (d) HDPE container with silica gel

Correct Answer : (b) Alu-Alu blister

77. Why is ultrafiltration - method preferred over precipitation for concentrating proteins <https://www.validcollege.com>

- (a) It is only for small proteins
- (b) Avoids chemical additives
- (c) Denatures protein
- (d) Removes endotoxin

Correct Answer : (b) Avoids chemical additives

78. Equilibrium distillation is also known as

- (a) Azeotropic distillation
- (b) Molecular distillation
- (c) Simple distillation
- (d) Flash distillation

Correct Answer : (d) Flash distillation

79. Filtration theory is explained by

- (a) Darcy equation
- (b) Dalton's law
- (c) Stokes law
- (d) Fick's law

Correct Answer : (a) Darcy equation

80. Choose the correct statement regarding Kick's law

- (a) Energy required is directly proportional to new surface area
- (b) Energy required is directly proportional to size reduction
- (c) Energy required is directly proportional to rotation of particle size
- (d) Energy required is directly proportional to diameter reduction

Correct Answer : (d) Energy required is directly proportional to diameter reduction

81. In a rising film evaporator, the liquid movement is due to

- (a) Mechanical agitation
- (b) External pump
- (c) Vapour lift
- (d) Gravity flow

Correct Answer : (c) Vapour lift

82. Naphthalene is purified by

- (a) Sublimation

- (b) Steam distillation
- (c) Crystallization
- (d) Distillation

**Correct Answer :** (a) Sublimation

83. McCabe-Thiele method is used to determine

- (a) Component of Vapour pressure
- (b) Number of template used in distillation
- (c) Heat duty of the reboiler
- (d) Theoretical plate used in distillation

**Correct Answer :** (d) Theoretical plate used in distillation

84. Match the following:

Column I - Column II

1. Tyndall effect - P. No Tyndall effect
2. Ultra microscope - Q. Observation of colloidal particles
3. Visible light - R. Used in scattering phenomena
4. True solution. - S. Light scattering.

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

**Correct Answer :** (a) 1-S, 2-R, 3-Q, 4-P

85. Creaming in emulsion is best described as

- (a) Irreversible coalescence of droplets
- (b) Reversible phase separation due to density of globules
- (c) Formation of multiple emulsion
- (d) Chemical degradation of emulsifier

**Correct Answer :** (b) Reversible phase separation due to density of globules

86. HLB values of solubilizing agent

- (a) 16 - 18
- (b) 0 - 3
- (c) 3 - 6
- (d) 9 - 12

Correct Answer : (a) 16 - 18

87. Choose the correct answer

Assertion (A): Non-Newtonian liquids do not follow Newtonian law

Reason (R): Viscosity changes when the rate of shear is applied

- (a) A is true, R is false
- (b) R is false, A is true
- (c) A is true, R is correct explanation of A
- (d) A is true but R is not the correct explanation of A

Correct Answer : (c) A is true, R is correct explanation of A

88. The surfactant decreases the surface tension with the concentration of plateau.

This plateau is related to

- (a) HLB
- (b) CMC
- (c) Krafft point
- (d) Cloud point

Correct Answer : (b) CMC

89. Formula of Renal clearance

- (a) Absorption rate/Plasma concentrations
- (b) Absorption rate + Plasma concentrations
- (c) Elimination rate/plasma concentrations
- (d) Absorption rate - Plasma concentrations

Correct Answer : (c) Elimination rate/plasma concentrations

90. The relationship between pH of the environment the pKa of drug and extent of ionization

- (a) Noyes whitney equation
- (b) Henderson-Hasselbalch equation
- (c) Law of mass action
- (d) Fick law

Correct Answer : (b) Henderson-Hasselbalch equation

91. Wagner-Nelson method is used to determine the rate constants

- (a) Dissociation constants rate
- (b) Absorption rate constants
- (c) Elimination rate constants
- (d) Distribution rate constant

Correct Answer : (b) Absorption rate constants

92. In a two-compartment pharmacokinetic model, the central compartment represents which organ

- (a) Ligaments
- (b) Bone
- (c) Heart
- (d) Tendons

Correct Answer : (c) Heart

93. If the pKa of phenobarbitone is 3.4 what would be pH 4.4

- (a) 1.0
- (b) 0.01
- (c) 0.5
- (d) 0.90

Correct Answer : (d) 0.90

94. Phytosomes improve the bioavailability by

- (a) Increasing molecular weight
- (b) Complex with phospholipids

- (c) Enhancing metabolism
- (d) Increasing salt formation

Correct Answer : (b) Complex with phospholipids

95. A patient with hypoalbumina experience increased effect of highly protein bound drug because

- (a) More of drug is present in active free form
- (b) Renal excretion of the drug is blocked
- (c) Drug distribution into tissues is increased
- (d) Hepatic metabolism of the drug is increased

Correct Answer : (a) More of drug is present in active free form

96. Which test is used to compare the means of two groups when the variances of the groups are not equal

- (a) Kruskal-Wallis test
- (b) Wilcoxon test
- (c) One-way ANOVA
- (d) Welch t-test

Correct Answer : (d) Welch t-test

97. U-PHC includes

- (a) 10,000
- (b) 50,000
- (c) 250000
- (d) 500000

Correct Answer : (b) 50,000

98. The Central Drugs Standard Control Organization CDSCO function under

- (a) Ministry of Chemicals and Fertilizers
- (b) Ministry of Health and Family Welfare
- (c) The NITI Aayog

(d) Ministry of Home Affairs

Correct Answer : (b) Ministry of Health and Family Welfare

99. Schedule E of Drugs and Cosmetics rules 1945 describes

(a) List of drugs under Medical Surveillance

(b) List of poisonous drugs under Ayurvedic siddha and Unani system

(c) List of cosmetics under Drugs and Cosmetics rules

(d) List of Biological drugs such as vaccine and sera

Correct Answer : (b) List of poisonous drugs under Ayurvedic siddha and Unani system

100. International Council for Harmonisation (ICH) guidelines which denote reproductive toxicology

(a) S3

(b) S5

(c) S1A

(d) S7A

Correct Answer : (b) S5

101. Form for registration certificate for Import of cosmetics under Drug and Cosmetic Rules 1945 comes under

(a) Form 40

(b) Form 41

(c) Form 42

(d) Form 43

Correct Answer : (d) Form 43

102. NRDC is the body promoting relation between public and private section. Which of the following best reflects its function

(a) Providing transfer of potent, processes

(b) Regulating Import / Export of pharmaceuticals

(c) Regulation of Lisene for drugs and cosmetics

(d) Approval of new drugs for marketing in India

**Correct Answer :** (a) Providing transfer of potent, processes

103. The Durham-Humphrey Amendment of 1951 primarily introduced. How it impacts pharmacy practice in India

(a) Classification of drugs into prescription (legend) and over-the-counter (OTC) categories

(b) Mandatory proof of drug efficacy before marketing approval

(c) Regulation of cosmetic products under federal law

(d) Requirement of informed consent in clinical trials

**Correct Answer :** (a) Classification of drugs into prescription (legend) and over-the-counter (OTC) categories

104. Which vaccine used for treatment of pneumoniae

(a) Rota Vaccine

(b) BCG Vaccine

(c) Hib Vaccine

(d) Dukoral Vaccine

**Correct Answer :** (c) Hib Vaccine

105. According to the I P, the standardization of Vitamin B<sub>12</sub> is done using a microbial assay. The test organism used is <https://www.validcollege.com>

(a) Streptococcus faecalis

(b) Leuconostoc mesenteroides

(c) Lactobacillus leichmannii

(d) Lactobacillus plantarum

**Correct Answer :** (c) Lactobacillus leichmannii

106. Microorganism used in industrial biotechnology for the production of Vitamin B<sub>12</sub> is

(a) Escherichia coli

(b) Lactobacillus acidophilus

(c) Pseudomonas denitrificans

(d) Saccharomyces cerevisiae

**Correct Answer :** (c) Pseudomonas denitrificans

107. In light chain Immuno globulin, the Carboxy terminus half of Molecule i.e. Constant (C) region consist of two basic amino acid Sequences named as

(a) Beta ( $\beta$ ) and Gamma ( $\gamma$ )

(b) Delta ( $\delta$ ) and Theta ( $\theta$ )

(c) Alpha ( $\alpha$ ) and Beta ( $\beta$ )

(d) Kappa ( $\kappa$ ) and Lambda ( $\lambda$ )

**Correct Answer :** (d) Kappa ( $\kappa$ ) and Lambda ( $\lambda$ )

108. Among gaseous used in sterilization and disinfectant....which of the following NOT used fumigation of room which is highly explosive property

(a) Formaldehyde

(b) Ethylene oxide

(c) Chlorine dioxide

(d) Beta propiolactone

**Correct Answer :** (b) Ethylene oxide

109. In pharmaceutical manufacturing, Laminar Air flow cabinet provides which class of clean air in aseptic technique

(a) Class-10

(b) Class-100

(c) Class-1000

(d) Class-10000

**Correct Answer :** (b) Class-100

110. In tube dilution test used for bactericidal agent stainless steel cylinder are incubated with test organism and produce for

(a) Colony count

(b) Min. Bactericidal Conc.

- (c) Zone of inhibition
- (d) Time kill curve

Correct Answer : (b) Min. Bactericidal Conc.

111. Commercial gamma radiation is NOT used for

- (a) Swab
- (b) Metal foil
- (c) Heat label liquid
- (d) Syringes

Correct Answer : (c) Heat label liquid

112. Which types of enzyme immobilization method is carrier free

- (a) Cross linking method of enzyme immobilization
- (b) Entrapment method of enzyme immobilization
- (c) Covalent on support techniques
- (d) Adsorption method of enzyme immobilization

Correct Answer : (a) Cross linking method of enzyme immobilization

113. The purpose of DEC provocation test in filariasis assessment is to

- (a) Destroy adult worms in the body
- (b) Detect antibodies against filarial parasites
- (c) Induce microfilariae in peripheral blood for detection
- (d) Produce immunity against filariasis

Correct Answer : (c) Induce microfilariae in peripheral blood for detection

114. Vector index used in quantitative assessment of malaria is

- (a) Slide Positivity Rate
- (b) Annual Parasite Incidence
- (c) Human Blood Index
- (d) Annual Blood Examination Rate (ABER)

Correct Answer : (c) Human Blood Index

115. Neisseria gonorrhoeae pili bind to which receptor

- (a) CD14
- (b) CD
- (c) CD46
- (d) CD4

Correct Answer : (c) CD46

116. Which of the following national programme conditions are recognized by the World Health Organization for occupational diseases

- (a) Burnout syndrome
- (b) Silicosis
- (c) Long-term musculoskeletal disorders due to computer-related disorders
- (d) Both B and C

Correct Answer : (d) Both B and C

117. The quantitative value determined for the identification of leaf drug remains constant throughout the age of the plant EXCEPT

- (a) Vein termination number
- (b) Stomatal number
- (c) Vein islet number
- (d) Stomatal index

Correct Answer : (b) Stomatal number

118. Orphan Drugs are

- (a) Orphan Drugs is essential drug
- (b) Drugs which are for orphan children's
- (c) Drugs which satisfy majority of population
- (d) Drugs used for rare disease

Correct Answer : (d) Drugs used for rare disease

119. Cyproheptadine stimulates appetite by inhibition of which type of receptor

- (a) Dopamine D2 receptor
- (b) 5-HT2 receptor
- (c) Muscarinic M3 receptor
- (d)  $\beta$ -adrenergic receptor

Correct Answer : (b) 5-HT2 receptor

120. Phase I trial is critical especially due to

- (a) Efficacy
- (b) Marked surveillance
- (c) Safety and tolerated dose
- (d) Long term study

Correct Answer : (c) Safety and tolerated dose

121. Which of the following drugs is administered intravenously for the treatment of Paroxysmal Supraventricular Tachycardia

- (a) Adenosine
- (b) Prazosin
- (c) Nifedipine
- (d) Bepridil

Correct Answer : (a) Adenosine

122. Hemolytic anemia and methemoglobinemia are adverse effect of which drug

- (a) Dapsone
- (b) Clofazimine
- (c) Rifampicin
- (d) Ethionamide

Correct Answer : (a) Dapsone

123. Acarbose mechanism of action

- (a)  $\alpha$  glucosidase inhibition

(b)  $\beta$  glucosidase inhibition

(c)  $\gamma$  glucosidase inhibition

(d)  $\lambda$  glucosidase inhibition

Correct Answer : (a)  $\alpha$  glucosidase inhibition

124. Which of the following is rapid insulin preparation/analogue

(a) Insulin detemir

(b) Human NPH

(c) Insulin regular

(d) Insulin glulisine

Correct Answer : (d) Insulin glulisine