

## GPAT - 2025

### COMPLETE MEMORY BASED QUESTION PAPER WITH TENTATIVE ANSWER

#### 1. Match the following Schedule

- |                   |                                      |
|-------------------|--------------------------------------|
| (P) Schedule 'H'  | (I) Life period of drugs             |
| (Q) Schedule 'G'  | (II) Drugs used under RMP            |
| (R) Schedule 'P'  | (III) List of Prescription Drugs     |
| (S) Schedule 'F2' | (IV) Standards for surgical dressing |

(a) P-I, Q-III, R-IV, S-II

(b) P-III, Q-IV, R-I, S-II

(c) P-III, Q-II, R-I, S-IV

(d) P-IV, Q-III, R-II, S-I

**Answer: (c) P-III, Q-II, R-I, S-IV**

#### 2. Match the following

Schedule	Description
1. Schedule FF	[P] Standards of patent of proprietary medicines
2. Schedule F3	[Q] Requirements and guidelines for clinical trials
3. Schedule V	[R] Standards for sterilized umbilical tapes
4. Schedule Y	[S] <u>Standards for Ophthalmic preparations</u>

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

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

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

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

**Answer: (c) (c) 1 - [S], 2 - [R], 3 - [P], 4 - [Q]**

3. If the label or the container bears the name of an individual or company purporting to be the manufacturer of the drug, which individual or company is fictitious or does not exist is

- (a) Spurious Drugs
- (b) Misbranded drugs
- (c) Mixed drugs
- (d) Adulterated drugs

**Answer: (a) Spurious Drugs**

4. ISO for quality assurance of Design, Development, Processing, Installation and Servicing is

- (a) ISO 9000
- (b) ISO 9001
- (c) ISO 9002
- (d) ISO 9004

**Answer: (b) ISO 9001**

5. According to the ICH guidelines for stability studies, Climatic Zone II temperature and relative humidity are respectively

- (a) 25°C and RH 60%
- (b) 21°C and RH 30%
- (c) 20°C and RH 35%
- (d) 30°C and RH 65%

**Answer: (a) 25°C and RH 60%**

6. How much volume of Raw spirit can an excise officer withdraw as sample

- (a) Two sample of same batch each of them should not be more than 100ml
- (b) Two sample of same batch each of them should not be more than 150 ml
- (c) Three sample of same batch each of them should not be more than 100ml
- (d) Three sample of same batch each of them should not be more than 150ml

**Answer: (b) Two sample of same batch each of them Should not be more than 150 ml**

7. Minimum manufacturing space for "Habb-Unani medicine" as per schedule of D and C Act

- (a) 50 Sq. Ft.
- (b) 100 Sq. Ft.
- (c) 150 Sq. Ft.
- (d) 200 Sq. Ft.

**Answer: (b) 100 Sq. Ft.**

8. Manufacturing Specification for tooling has been standardized by

- (a) Physician reference desk of industry
- (b) National drug code

- (c) Indian Pharmacopoeia Commission
- (d) Academy of Pharmaceutical Science

**Answer: (c) Indian Pharmacopoeia Commission**

**9. Match pair of drugs and their family**

Column A

[1] Snake root

[2] Artemisia

[3] Bitter almond

[4] Myrrh

Column B

[P] Compositae

[Q] Rosaceae

[R] Apocynaceae

[S] Burseraceae

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

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

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

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

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

**10. Which of the following alkaloid are found as salt of meconic acid**

(a) Rauwolfia Alkaloid

(b) Tropane Alkaloid

(c) Ergot Alkaloid

(d) Opium Alkaloid

**Answer: (d) Opium Alkaloid**

**11. Choose the correct statement from the following**

[P] Anthraquinone derivative are generally detected by Borntrager's test

[Q] Anthrone is yellow color substance and soluble in alkali

[R] Anthranol is insoluble in alkali and show strong red fluorescence

[S] Borntrager's test gives negative result with Anthranol (Reduced form)

(a) P and S Only

(b) R Only

(c) Q and R Only

(d) P Only

**Answer: (a) P and S Only**

12. Choose the correct statement from the following

[A] Tannin solution precipitate alkaloid

[B] Hydrolysable tannin produce gallic and ellagic acid by enzymatic and acid hydrolysis

[C] Condense tannin converted into red color substance known as phlobaphene on acid and enzymatic hydrolysis

[D] Tannin are insoluble in water

(a) A and C Only

(b) B Only D Only

(c) C only

(d) A, B and C are correct

**Answer: (d) A, B and C are correct**

13. Trikatu in Ayurveda is Combination of

(a) Black mustard, Long pepper, Ginger

(b) Black pepper, Long pepper, Betel

(c) Black pepper, Long pepper, Ginger

(d) Black pepper, Small pepper, Ginger

**Answer: (c) Black pepper, Long pepper, Ginger**

14. Glycogenic amino acid entered TCA cycle EXCEPT

(a) Alanine

(b) Glycine

(c) Glutamate

(d) Aspartate

**Answer: (b) Glycine**

15. Match of the following

Diseases

Causative agent

(P) Tuberculosis

(1) Bacterial

(Q) Diphtheria

(2) Viral

(R) Yellow fever

(3) Toxoids

(S) Malaria

(4) Protozoal

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

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

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

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

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

**16. Which of the following is used to evaluate disinfectant?**

(a) Widal test

(b) VRDL test

(c) Chick martin test

(d) None of these

**Answer: (c) Chick martin test**

**17. Oral vaccine such as Dukoral®, Shanchol™ is used for prevention**

(a) Pneumonia

(b) Ebola virus

(c) Cholera

(d) Polio

**Answer: (c) Cholera**

**18. Which parasitic worm is responsible for causing lymphatic filariasis**

(a) Wuchereria bancrofti

(b) Brugia malayi

(c) Onchocerca volvulus

(d) Ancylostoma duodenale

**Answer: (a) Wuchereria bancrofti**

**19. Which statistical test is used to compare mean of two identical groups**

(a) ANOVA

(b) Sample t test

(c) Paired t test

(d) Pooled t test

**Answer: (c) Paired t test**

**20. Which enzyme is responsible for albinism te**

- (a) Beta-hydroxylase
- (b) Pyruvate dehydrogenase
- (c) Hydroxylase
- (d) Tyrosinase

**Answer: (d) Tyrosinase**

**21. Which anemia is caused due to Microcytic hypochromic red blood cells**

- (a) Pernicious anemia
- (b) Aplastic anemia
- (c) Iron deficiency anemia
- (d) Hemolytic anemia

**Answer: (c) Iron deficiency anemia**

**22. Which of the following is the differential test be. it does not require the need to make assumption of population following normal or differential distributed**

- (a) ANOVA
- (b) Student T test
- (c) Fisher LSD test
- (d) Kruskal-Wallis test

**Answer: (d) Kruskal-Wallis test**

**23. Which of the following represents the correct stability order of alkenes?**

- (a) Trans-2-Butene > Cis-2-Butene > Isobutene > But-1-ene
- (b) Cis-2-Butene > Trans-2-Butene > Isobutene > But-1-ene
- (c) Isobutene > But-1-ene > Cis-2-Butene > Trans-2-Butene
- (d) Isobutene > Trans-2-Butene > Cis-2-Butene > But-1-ene

**Answer: (d) Isobutene > Trans-2-Butene > Cis-2-Butene > But-1-ene**

**24. Cis trans (E/Z) Isomers, EXCEPT**

- (a) 1-butene
- (b) 2-butene-1-ol
- (c) 2-chloro-3-hexene
- (d) 4-Chloro-2-pentene

**Answer: (a) 1-butene**

25. Numbers of stereoisomers of 3-bromo-2 butanol

- (a) 2
- (b) 4
- (c) 6
- (d) 8

**Answer: (b) 4**

26. In Friedel crafts reaction Benzene is react with isopropyl bromide with Aluminium tri chloride gives

- (a) Benzophenone
- (b) Acetophenone
- (c) Isopropyl benzene
- (d) n-Propyl benzene

**Answer: (c) Isopropyl benzene**

27. Number of conformational isomers of n-butane

- (a) One-anti & one-gauche
- (b) One-anti & two-gauche
- (c) Two-anti & one-gauche
- (d) Two-anti & two-gauche

**Answer: (b) One-anti & two-gauche**

28. Debye is unit of

- (a) Dipole movement
- (b) Field effect
- (c) Dissociation constant
- (d) Bond energy

**Answer: (a) Dipole movement**

29. Which is consider Markonikov rule EXCEPT

- (a) Addition of HI in an alkene
- (b) Addition of HCl in an alkene
- (c) Addition of HBr in presence of peroxide in an alkene
- (d) Addition of H<sub>2</sub>O in presence of acid

**Answer: (c) Addition of HBr in presence of peroxide in an alkene**

**30. In Bayer strain theory which cycloalkane is more stable**

- (a) Cyclo Propane
- (b) Cyclo Butane
- (c) Cyclo Pentane
- (d) Cyclo Octane

**Answer: (c) Cyclo Pentane**

**31. Walden inversion includes**

- (a)  $SN_1$
- (b)  $SN_2$
- (c) Both  $SN_1$  and  $SN_2$
- (d) Elimination

**Answer: (b)  $SN_2$**

**32. Diels-elder reaction is**

- (a) Cyclo addition
- (b) Elimination
- (c) Nucleophilic addition
- (d) Electrophilic substitution

**Answer: (a) Cyclo addition**

**33. Alkyl halide is convert to alkane**

- (a) Wurtz Reaction
- (b) Birch reation
- (c) Sabatier senderen's reaction
- (d) Grignard reaction

**Answer: (a) Wurtz Reaction**

**34. Aryl diazonium reacts with fluoroborate to give Arylfluoride**

- (a) Balz-Schiemann reaction
- (b) Stephen reaction
- (c) Gattermann reaction

(d) Gomberg reaction

**Answer: (a) Balz-Schiemann reaction**

**35. Which of the following is highly diazotized**

(a) Aniline

(b) P-bromo aniline

(c) P-chloro aniline

(d) P-nitro aniline

**Answer: (a) Aniline**

**36. Pyridine is a base with  $K_b$  value**

(a)  $1.7 \times 10^{-9}$

(b)  $2.3 \times 10^{-12}$

(c)  $3.2 \times 10^{-6}$

(d)  $3.8 \times 10^{-7}$

**Answer: (a)  $1.7 \times 10^{-9}$**

**37. Naturally occurring pilocarpine is**

(a) 2R, 4R (+) Pilocarpine

(b) 3S, 5R (-) Pilocarpine

(c) 2S, 4R (-) Pilocarpine

(d) 3R, 4S (+) Pilocarpine

**Answer: (d) 3R, 4S (+) Pilocarpine**

**38. In a Drug discovery process**

**1. Lead optimization**

**2. Target selection**

**3. Lead findings**

(a) 3-2-1

(b) 1-2-3

(c) 2-3-1

(d) 3-1-2

**Answer: (c) 2-3-1**

39. Methotrexate used as an antimetabolite is product of n-methylation of para amino benzoic acid and pyridine hydroxyl is isosteric group

- (a) SH
- (b) CH<sub>3</sub>
- (c) NH<sub>2</sub>
- (d) CF

**Answer: (c) NH<sub>2</sub>**

40. A/B Trans steroidal in a 5<sup>th</sup> position hydrogen

- (a) Beta configurations
- (b) Eclipsed confirmation
- (c) Alpha configurations
- (d) Gauche confirmation

**Answer: (c) Alpha configurations**

41. Total Number of Carbon pregnane is

- (a) 18
- (b) 19
- (c) 21
- (d) 27

**Answer: (c) 21**

42. Hypnotics and sedative barbiturate pK<sub>a</sub> acid value

- (a) 4-6
- (b) 5-8
- (c) 9-11
- (d) 7-9

**Answer: (d) 7-9**

43. Structure of hybrid in methadone and meperidine

- (a) Pentazocine
- (b) Tramadol
- (c) Methotrexate
- (d) Labetalol

**Answer: (b) Tramadol**

**44. Steroidal cholestane ring fused with**

- (a) 5, 6, 7, 9, 10, 13
- (b) 5, 6, 8, 9, 10, 11
- (c) 5, 6, 8, 9, 10, 13
- (d) 5, 6, 8, 9, 10, 14

**Answer: (c) 5, 6, 8, 9, 10, 13**

**45. UV absorbent value of Morphine**

- (a) 266 nm
- (b) 276 nm
- (c) 256 nm
- (d) 286 nm

**Answer: (d) 286 nm**

**46. Complexometric titration indicators Except**

- (a) Mordant black - II
- (b) Ferroin
- (c) Catechol violet
- (d) Xylene orange

**Answer: (b) Ferroin**

**47. In complexometric titration masking agent used to mask Iron (II) ion**

- (a) KCN
- (b) Thio glycerol
- (c) Tri ethanol amine
- (d) Ammonium Fluoride

**Answer: (a) KCN**

**48. Which is used as Fajan's method indicator**

- (a) Dichlorofluorescene
- (b) Methyl red
- (c) Phenolphthalein

(d) Xylene orange

**Answer: (a) Dichlorofluorescene**

49. Cyanide used in nephlo turbidometry titration as a salt of with

(a) Ag

(b) Au

(c) Na

(d) K

**Answer: (a) Ag**

50. How to prepare 200 ml of Sodium Sodium hydroxide of 0.15 M solution

(a) 1.0 gm

(b) 1.2 gm

(c) 1.5 gm

(d) 1.8 gm

**Answer: (b) 1.2 gm**

51. Stationary phase for steroidal in paper chromatography

(a) Acylated paper

(b) Carboxy Paper

(c) Kieselguhr paper

(d) Silica Paper

**Answer: (a) Acylated paper**

52. Choose the correct statement in a potentiometric titration salt bridge is used as

(i) Prevent contamination of reference electrode to test solution

(ii) No use of design reference electrode of salt bridge

(iii) No Effect in test solution

(iv) Solidified with 3% agar

(a) Only I

(b) I and III

(c) I and IV

(d) III and IV

**Answer: (c) I and IV**

53. Which of the following is not a Karl fisher reagent

- (a) Iodine
- (b) Pyridine
- (c) Pyrimidine
- (d) Sulphur dioxide

**Answer: (c) Pyrimidine**

54. In Ilkovic equation 'm' determine

- (a) Determine mass of analyte
- (b) Determine mass of electron transfer
- (c) Determine mass of mercury flow transfer
- (d) Determine drop time

**Answer: (c) Determine mass of mercury flow transfer**

55. Enzyme activate  $E_a$  for thermal decomposition of glucose in first order is calculated by <https://www.validcollege.com>

- (a) The x-axis Intercept of Arrhenius plot
- (b) The y-axis Intercept of Arrhenius plot
- (c) Slope Arrhenius plot
- (d) Rate constant at room temperature

**Answer: (c) Slope Arrhenius plot**

56. In conductometric titration in acetic acid 56 with 0.1 N Sodium hydroxide complete neutralization occurs. Further addition of titrant results in

- (a) Increase the conductance
- (b) Decrease the conductance
- (c) No change the conductance
- (d) Colour change orange to red

**Answer: (a) Increase the conductance**

57. Vincristine in ultra violet spectrophotometry  $\lambda_{\max}$  value

- (a) 217 nm
- (b) 245 nm
- (c) 290 nm

(d) 360 nm

**Answer: (c) 290 nm**

**58. Which of the following liquid has the highest surface tension water at 20 degree C**

(a) Carbon tetrachloride

(b) Mercury

(c) Oleic acid

(d) Octane

**Answer: (b) Mercury**

**59. Which diluent is incompatible with primary amines**

(a) Lactose

(b) Mannitol

(c) Microcrystalline cellulose

(d) Dextrose

**Answer: (a) Lactose**

**60. Maximum limit of iron used in gelatin for manufacturing Soft Gelatin capsule shell should not exceed**

(a) 15PPM

(b) 20 PPM

(c) 25 PPM

(d) 50 PPM

**Answer: (a) 15PPM**

**61. If the log of microorganisms is plotted against time, an initially straight result. The inverse slope of this line is called**

(a) Thermal death line

(b) D value

(c) Z value

(d) Half life

**Answer: (b) D value**

**62. Sedimentation volume is measured by**

- (a) Ultimate volume of sediment/ initial volume of total suspension
- (b) Flocculation of sedimentation
- (c) Initial volume of total suspension / Ultimate volume of sediment
- (d) Volume of flocculated suspension

**Answer: (a) Ultimate volume of sediment/ initial volume of total suspension**

63. According to USP, the range of sparingly solubility required to dissolve 1 part of solute should be

- (a) 1-10
- (b) 10-30
- (c) 30-100
- (d) 100-1000

**Answer: (c) 30-100**

64. Rheogram of which type of flow does not start from the origin

- (a) Plastic Flow
- (b) Dilatant Flow
- (c) Pseudoplastic flow
- (d) Newtonian

**Answer: (a) Plastic Flow**

65. A powder has car's compressibility index in the range of 12-16. The flow ability of the powder will be

- (a) Fair
- (b) Excellent
- (c) Good
- (d) Very poor

**Answer: (c) Good**

66. As per (USP) maximum concentration of benzalkonium chloride used as preservative in parenteral formulation.

- (a) 0.01%
- (b) 0.001%
- (c) 0.05%
- (d) 0.005%

**Answer: (a) 0.01%**

67. Which of the following is commonly used as broad spectrum preservatives in pharmaceutical formulation

- (a) Benzoic acid
- (b) Benzalkonium chloride
- (c) Ascorbic acid
- (d) Vitamin C

**Answer: (b) Benzalkonium chloride**

68. Statement of deflocculated suspension

- (a) Sedimentation for Rapidly
- (b) Sedimentation for slowly
- (c) Easy to redisperse
- (d) Unpleasant in Appearance

**Answer: (b) Sedimentation for slowly**

69. Common name of convective transport

- (a) Pore transport
- (b) Active transport
- (c) Passive transport
- (d) Endocytosis transport

**Answer: (a) Pore transport**

70. Particle size range of optical microscopy

- (a) 500 - 1000  $\mu\text{m}$
- (b) 0.001 - 0.1  $\mu\text{m}$
- (c) 200 - 500  $\mu\text{m}$
- (d) 0.5 - 1.50  $\mu\text{m}$

**Answer: (d) 0.5 - 1.50  $\mu\text{m}$**

71. Select the statement of Smectic liquid crystal

- (a) Mobility in two direction or no rotation
- (b) Three direction or no rotation
- (c) Mobility in two direction or rotation in one axis

(d) Mobility in three direction or rotation in one axis

**Answer: (c) Mobility in two direction or rotation in one axis**

72. The flow of viscosity increase when then Substance is sheared in known as

(a) Dilatant

(b) Plastic

(c) Pseudoplastic

(d) Newtonian

**Answer: (a) Dilatant**

73. Equipment is used in structured breakdown of thixotropy

(a) Viscometer

(b) Planitometers

(c) Rotameters

(d) Orifice meter

**Answer: (a) Viscometer**

74. Thixotropic behaviour are associates with

(a) Increase in Viscosity

(b) Decrease in Viscosity

(c) Solid & Liquid behaviours

(d) sol gel Sol Transformation

**Answer: (b) Decrease in Viscosity**

75. Match the following :

I. True density (P) Reciprocal of bulk density

II. Granule density (Q) Graduated cylinder method

III. Bulk density (R) Helium Pycnometer

IV. Bulkiness (S) Mercury displacement method

Choose the correct one

(a) (I)-(S), (II)-(P), (III)-(Q), (IV)-(R)

(b) (1)-(Q), (II)-(S), (III)-(P), (IV)-(R)

(c) (I)-(R), (II)-(S), (III)-(Q), (IV)-(P)

(d) (I)-(Q), (f)-(R), (III)-(S), (V)-P)

**Answer: (c) (I)-(R), (II)-(S), (III)-(Q), (IV)-(P)**

**76. Kozeny-Carman equation is related to**

- (a) Pressure drop Turbulent-flow
- (b) Sedimentation velocity
- (c) Heat transfer
- (d) Permeability to particle size & Bed porosity

**Answer: (d) Permeability to particle size & Bed porosity**

**77. Theory of filtration is related to**

- (a) Dalton's method
- (b) Darcy equation
- (c) BET equation
- (d) Stoke's equation

**Answer: (b) Darcy equation**

**78.  $\text{Log} \frac{P_2}{P_1} = \frac{\Delta H_v(T_2 - T_1)}{2.303RT_1T_2}$**

- (a) Clausius Mossoti equation
- (b) BET equation
- (c) Boltzmann-Planck equation
- (d) Ciausius Clapeyron equation

**Answer: (d) Ciausius Clapeyron equation**

**79. Nitrodisc is an example of which type of Drug Delivery System**

- (a) Ocular
- (b) Transdermal
- (c) Mucosal
- (d) Nasal

**Answer: (b) Transdermal**

**80. CLASS-II method at tonicity adjustment**

- (a) Cryoscopic
- (b) NaCl Equivalent

(c) White Vincent

(d) Mole fraction

**Answer: (c) White Vincent**

81. If the granule density of potassium bicarbonate 2.350 g/cc & true density 3.560 g/cc determine the interparticle porosity of powder

(a) 0.56

(b) 0.44

(c) 0.66

(d) 0.34

**Answer: (d) 0.34**

82. Triple point of water occur at which temperature and pressure

(a) 0.098 °C and 4.58 mmHg

(b) 0.0098°F and 4.58 mmHg

(c) 0.098°F and 4.58 mmHg

(d) 0.0098°C and 4.58 mmHg

**Answer: (d) 0.0098°C and 4.58 mmHg**

83 In supercritical fluid extraction, what will be the critical temperature (ct) and critical pressure (cp)

(a) 34° C and 50 atm

(b) 31.1° C and 73.8 atm

(c) 54° C and 78 atm

(d) 40° C and 60 atm

**Answer: (b) 31.1° C and 73.8 atm**

84. Examples of continuous shelf moving dryer is

- (a) Vacuum dryer
- (b) Tray dryer
- (c) Spray dryer
- (d) Turbo tray dryer

**Answer: (d) Turbo tray dryer**

85. An antibiotic dissolves completely in 250 ml of aqueous solution at PH range 1-6.8 and 37°C, and after dissolution, it shows 85% absorption in the body. Based on the Biopharmaceutics Classification System (BCS), in which class does this drug belong?

- (a) Class I
- (b) Class II
- (c) Class III
- (d) Class IV

**Answer: (c) Class III**

86 Manucol is also known as

- (a) Sodium alginate
- (b) Alginic acid
- (c) Carbopol
- (d) Guar gum

**Answer: (a) Sodium alginate**

87. Which of the following anticancer drug produces hand foot syndrome

- (a) Methotrexate
- (b) Capecitabine
- (c) Vincristine

(d) Doxorubicin

**Answer: (b) Capecitabine**

**88. Which of the following is P2Y<sub>12</sub> enzyme inhibitors**

(a) Clopidogrel

(b) Aspirin

(c) Dipyridamole

(d) Tirofiban

**Answer: (a) Clopidogrel**

**89 Vigabatrin is inhibitor of**

(a) GABA synthase

(b) GABA transaminase

(c) Voltage gated Na channel

(d) Chloride channel

**Answer: (b) GABA transaminase**

**90. PDE 4 inhibitor which used in COPD**

(a) Montelukast

(b) Roflumilast

(c) Cromoglicate

(d) Omalizumab

**Answer: (b) Roflumilast**

**91. Which of the following is antidote of organophosphorus**

(a) Pralidoxime

- (b) Naloxone
- (c) Physostigmine
- (d) Sodium thiosulphate

**Answer: (a) Pralidoxime**

**92. Which of the following is Proliferator-Activated Receptor Alpha agonist**

- (a) Sulfonylurea
- (b) Metformin
- (c) Acarbose
- (d) Pioglitazone

**Answer: (d) Pioglitazone**

**93. Bambuterol is a prodrug of**

- (a) Salmeterol
- (b) Terbutaline
- (c) Albuterol
- (d) Theophylline

**Answer: (b) Terbutaline**

**94 Anticonvulsant drug used as selective molecular target**

- (a) Vigabatrin
- (b) Gabapentin
- (c) Lamotrigine
- (d) Tiagabin

**Answer: (c) Lamotrigine**

95. Common name of convective transport

- (a) Endocytosis
- (b) Active transport
- (c) Passive transport
- (d) Pore transport

**Answer: (d) Pore transport**

96. After which phase of clinical trial pharmaceutical companies submit new drug application (NDA) to license authority <https://www.validcollege.com>

- (a) Phase I
- (b) Phase II
- (c) Phase III
- (d) Phase IV

**Answer: (c) Phase III**

97. Match the following

Pancreas Islet cells

Hormones

I. Alpha ( $\alpha$ ) cell

[P] Glucagon

II. Beta ( $\beta$ ) cells

[Q] Somatostatin

III. Delta ( $\delta$ ) cell

[R] Gastrin

IV. G cell

[S] Proinsulin

- (a) (I)-(P), (II)-(S), (III)-(Q), (IV)-(R)
- (b) (I)-(Q), (II)-(S), (III)-(P), (IV)-(R)
- (c) (I)-(R), (II)-(S), (III)-(P), (IV)-(Q)
- (d) (I)-(Q), (II)-(R), (III)-(S), (IV)-(P)

**Answer: (a) (I)-(P), (II)-(S), (III)-(Q), (IV)-(R)**

98. Which of the following drug given with warfarin induce hepatic p450 enzyme

- (a) Ciprofloxacin
- (b) Metronidazole
- (c) Carbamazepine
- (d) Diltiazem

**Answer: (c) Carbamazepine**

99. Blood concentration ratio of combination of trimethoprim and sulfamethoxazole after given in ratio 1:5 is

- (a) 1:1
- (b) 1:5
- (c) 1:10
- (d) 1:20

**Answer: (d) 1:20**

100. Furosemide mechanism of action

- (a) Inhibit  $\text{Na}^+\text{K}^+\text{2Cl}^-$  cotransporter in ascending limb of loop of henle
- (b) Inhibit  $\text{Na}^+\text{K}^+$  cotransporter in collecting duct
- (c) Inhibit  $\text{Na}^+\text{2Cl}^-$  cotransporter distal loop of Henle
- (d) Aldosterone antagonist

**Answer: (a) Inhibit  $\text{Na}^+\text{K}^+\text{2Cl}^-$  cotransporter in ascending limb of loop of henle**

101. Match the following drugs and their MOA

- |  |                              |
|--|------------------------------|
| (1) Inhibit arabinosyl transferase         | (P) Rifampicin               |
| (2) Inhibit folate synthase                | (Q) Bedaquiline              |
| (3) Inhibits DNA dependent RNA polymerase. | (R) Ethambutol               |
| (4) Inhibit mycobacterial ATP synthase     | (S) Para-Aminosalicylic acid |

choose the correct one

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

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

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

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

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

102. Match the following Class and their Drug

Class            antiarrhythmic drug

(1) Class I    (P) Disopyramide

(2) Class II   (Q) Metoprolol

(3) Class III   (R) Amiodarone

(4) Class IV   (S) Verapamil

Choose the correct one

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

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

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

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

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

103. Which effect is associated with amphotericin B

(a) Hyponatremia

(b) Hypokalemia

(c) Hypermagnesemia

(d) Hypercalcemia

**Answer: (b) Hypokalemia**

104. Which of the following drugs used to treat influenza targets an enzyme

- (a) DNA polymerase
- (b) Reverse transcriptase
- (c) Neuraminidase
- (d) Protease

**Answer: (c) Neuraminidase**

105. Choose the correct match of laxative

Laxative	MOA
(1) Senna	(P) Osmotic purgative
(2) Lactulose	(Q) Stimulant Laxative
(3) Lubiprostone	(R) Faecal Softness
(4) Prucalopride	(S) 5-HT <sub>4</sub> Agonist

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

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

106. BPALM combination drug namesmoxifloxacin

- (a) Bedaquiline, pyrazinamide, linezolid, moxifloxacin
- (b) Bedaquiline, Pretomanid, linezolid, monteleukast
- (c) Bedaquiline, Pretomanid, linezolid, moxifloxacin
- (d) Bedaquiline, pyrazinamide, levofloxacin, moxifloxacin

**Answer: (c) Bedaquiline, Pretomanid, linezolid, moxifloxacin**

107. Mirabegron is used in the management of overactive bladder

- (a) Beta 2 agonist
- (B) Beta 3 agonist
- (c) M3 antagonist
- (d) Beta1 agonist

**Answer: (B) Beta 3 agonist**

108. Which PDE 4 inhibitor is used in COPD

- (a) Montelukast
- (b) Theophylline
- (c) Cromoglicic acid
- d) Omalizumab

**Answer: (b) Theophylline**

109. 5HT<sub>2A/2C</sub> antagonist used in migraine

- (a) Methysergide
- (b) Ketanserin
- (c) Sumatriptan
- (d) Rizatriptan

**Answer: (a) Methysergide**

110. If 50% of Women Who are diagnosed with Venous Thrombosis is Found to be Taking Oral Contraceptives with Compared to non thrombosis....Which type of study?

- (a) Cohort
- (b) Case Study
- (c) Cross Sectional

(d) ANOVA

**Answer: (b) Case Study**

**111. pH of Jejunum**

(a)  $6.8 \pm 4$

(b)  $1 \pm 4$

(c)  $3 \pm 8$

(d)  $5 \pm 1$

**Answer: (a)  $6.8 \pm 4$**

**112. GnRH agonist EXCEPT**

(a) Goserelin

(b) Ganirelix

(c) Triptorelin

(d) Buserelin

**Answer: (b) Ganirelix**

**113. Which of the following are responsible for a rightward shift in the oxygen-hemoglobin dissociation curve**

(a) Lower  $P_{O_2}$

(b) Higher  $H^+$

(c) Higher  $pCO_2$

(d) Both (b) and (c)

**Answer: (d) Both (b) and (c)**

**114. Match the following Class and their Drug**

(1) Alkylating

(P) 5 fluorouracil

(2) Platinum analog

(Q) Cisplatin

(3) Antimetabolite

(R) Cetuximab

(4) EGF receptor inhibitor

(S) Chlorambucil

Choose the correct one

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

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

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

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

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

115. Which of the following nasal decongestant is alpha2 agonist

(a) Oxymetazolin

(b) Terbutaline

(c) Salbutamol

(d) Methotrexate

**Answer: (a) Oxymetazolin**