

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) 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

Column B

[1] Snake root

[P] Compositae

[2] Artemisia

[Q] Rosaceae

[3] Bitter almond

[R] Apocynaceae

[4] Myrrh

[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
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(P) Tuberculosis	(1) Bacterial
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(Q) Diphtheria	(2) Viral
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(R) Yellow fever	(3) Toxoids
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(S) Malaria	(4) Protozoal
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(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 H₂O 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-chlro aniline

(d) P-nitro aniline

Answer: (a) Aniline

36. Pyridine is a base with K_b value

(a) 1.7×10^{-9}

(b) 2.3×10^{-12}

(c) 3.2×10^{-6}

(d) 3.8×10^{-7}

Answer: (a) 1.7×10^{-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) CH₃
- (c) NH₂
- (d) CF

Answer: (c) NH₂

40. A/B Trans steroidal in a 5th 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_a 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) Dichlorofluorescence
- (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.pyqonline.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 λ_{\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 μm
- (b) 0.001 - 0.1 μm
- (c) 200 - 500 μm
- (d) 0.5 - 1.50 μm

Answer: (d) 0.5 - 1.50 μm

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 behaviour

(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) Clausius Clapeyron equation

Answer: (d) Clausius 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 P2Y₁₂ 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.pyqonline.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 (α) cell

[P] Glucagon

II. Beta (β) cells

[Q] Somatostatin

III. Delta (δ) 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 Na^+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 ₄ 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) Cromoglicate
- d) Omalizumab

Answer: (b) Theophylline

109. 5HT 2A/2C 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 ± 4

(b) 1 ± 4

(c) 3 ± 8

(d) 5 ± 1

Answer: (a) 6.8 ± 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