

# GPAT 2025 Memory Based Question Paper

<b>Time Allowed :3 Hours</b>	<b>Maximum Marks :500</b>	<b>Total questions :125</b>
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## General Instructions

**Read the following instructions very carefully and strictly follow them:**

1. Duration of Exam: 3 Hours
2. Total Number of Questions: 125 Questions
3. Type of Questions: Multiple Choice Questions (Objective)
4. Marking Scheme: 4 mark awarded for each correct response
5. Negative Marking: -1 mark for each wrong response.

**1. Match the following:**

- (P) Schedule H
- (Q) Schedule G
- (R) Schedule P
- (S) Schedule F2

Descriptions:

- (I) Life period of drugs
  - (II) Drugs used under RMP
  - (III) List of Prescription Drugs
  - (IV) Standards for surgical dressing
- (A) P-I, Q-II, R-IV, S-III
  - (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
- 

**2. Match the following:**

- (1) Schedule FF
- (2) Schedule F3
- (3) Schedule V
- (4) Schedule Y

Descriptions:

- (P) Standards of patent and proprietary medicines
  - (Q) Requirements and guidelines for clinical trials
  - (R) Standards for sterilized umbilical tapes
  - (S) Standards for Ophthalmic preparations
- (A) 1-[P], 2-[Q], 3-[S], 4-[R]
  - (B) 1-[Q], 2-[R], 3-[P], 4-[S]
  - (C) 1-[S], 2-[R], 3-[P], 4-[Q]
  - (D) 1-[R], 2-[P], 3-[Q], 4-[S]
-

**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, it is:**

- (A) Misbranded Drug
  - (B) Adulterated Drug
  - (C) Spurious Drug
  - (D) Not of Standard Quality
- 

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

- (A) ISO 9000
  - (B) ISO 9001
  - (C) ISO 9002
  - (D) ISO 9003
- 

**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) 30°C and RH 65%
  - (C) 40°C and RH 75%
  - (D) 25°C and RH 75%
- 

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

- (A) One sample of 200 ml
  - (B) Two samples of 150 ml each
  - (C) Three samples of same batch, each not more than 100 ml
  - (D) One sample of 500 ml
- 

**7. Minimum manufacturing space for 'Habb-Unani medicine' as per Schedule of D and C Act?**

- (A) 50 Sq. Ft.
  - (B) 75 Sq. Ft.
  - (C) 100 Sq. Ft.
  - (D) 150 Sq. Ft.
- 

**8. Manufacturing Specification for tooling has been standardized by?**

- (A) USFDA
  - (B) CDSCO
  - (C) Indian Pharmacopoeial Commission
  - (D) WHO
- 

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

**Column A (Drugs):**

1. Snake root
2. Artemisia
3. Bitter almond
4. Myrrh

**Column B (Family):**

- (P) Compositae
  - (Q) Rosaceae
  - (R) Apocynaceae
  - (S) Burseraceae
- (A) 1-[R], 2-[P], 3-[Q], 4-[S]
  - (B) 1-[Q], 2-[R], 3-[P], 4-[S]
  - (C) 1-[P], 2-[Q], 3-[S], 4-[R]
  - (D) 1-[S], 2-[P], 3-[R], 4-[Q]
- 

**10. Which of the following alkaloids are found as salts of meconic acid?**

- (A) Rauwolfia Alkaloid
- (B) Tropane Alkaloid

- (C) Ergot Alkaloid
  - (D) Opium Alkaloid
- 

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

- (P) Anthraquinone derivatives are generally detected by Borntrager's test
  - (Q) Anthrone is yellow colored and soluble in alkali
  - (R) Anthranol is insoluble in alkali and shows 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
- 

**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) Condensed 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
- 

**13. Trikatu in Ayurveda is a combination of:**

- (A) Black mustard, Long pepper, Ginger
  - (B) Black pepper, Long pepper, Betal
  - (C) Black pepper, Long pepper, Ginger
  - (D) Black pepper, Small pepper, Ginger
-

**14. Glycogenic amino acids enter TCA cycle *except*:**

- (A) Alanine
  - (B) Glycine
  - (C) Glutamate
  - (D) Aspartate
- 

**15. Match the following:**

- (P) Tuberculosis
- (Q) Diphtheria
- (R) Yellow fever
- (S) Malaria

Descriptions:

- (1) Bacterial
  - (2) Viral
  - (3) Toxoids
  - (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
- 

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

- (A) Widal test
  - (B) VRDL test
  - (C) Chick Martin test
  - (D) None of these
- 

**17. Oral vaccine such as Dukoral® and Shanchol™ is used for prevention of:**

- (A) Pneumonia
- (B) Ebola virus

- (C) Cholera
  - (D) Polio
- 

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

- (A) Wuchereria bancrofti
  - (B) Brugia malayi
  - (C) Onchocerca volvulus
  - (D) Ancylostoma duodenale
- 

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

- (A) ANOVA
  - (B) Sample t test
  - (C) Paired t test
  - (D) Pooled t test
- 

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

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

**22. Which of the following is the differential test i.e. 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
- 

## ORGANIC CHEMISTRY & PHYSICAL CHEMISTRY

**23. Which of the following is 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
- 

**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
- 

**25. Number of stereoisomers of 3-bromo-2-butanol:**

- (A) 2
  - (B) 4
  - (C) 6
  - (D) 8
- 

**26. In Friedel-Crafts reaction, benzene reacts with isopropyl bromide in the presence of aluminium trichloride to give:**

- (A) Benzophenone
- (B) Acetophenone
- (C) Isopropyl benzene
- (D) n-Propyl benzene

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**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
- 

**28. Debye is a unit of:**

- (A) Dipole moment
  - (B) Field effect
  - (C) Dissociation constant
  - (D) Bond energy
- 

**29. Which is considered an exception to Markovnikov's rule *EXCEPT*:**

- (A) Addition of HI in an alkene
  - (B) Addition of HCl in an alkene
  - (C) Addition of HBr in the presence of peroxide in an alkene
  - (D) Addition of H<sub>2</sub>O in the presence of acid
- 

**30. In Baeyer strain theory, which cycloalkane is more stable?**

- (A) Cyclopropane
  - (B) Cyclobutane
  - (C) Cyclopentane
  - (D) Cyclooctane
- 

**31. Walden inversion includes:**

- (A) SN1
- (B) SN2
- (C) Both SN1 and SN2
- (D) Elimination

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**32. Diels-Alder reaction is:**

- (A) Cyclo addition
  - (B) Elimination
  - (C) Nucleophilic addition
  - (D) Electrophilic substitution
- 

**33. Alkyl halide is converted to alkane:**

- (A) Wurtz Reaction
  - (B) Birch reaction
  - (C) Sabatier-Senderens reaction
  - (D) Grignard reaction
- 

**34. Aryl diazonium reacts with fluoroborate to give aryl fluoride:**

- (A) Balz-Schiemann reaction
  - (B) Stephen reaction
  - (C) Gattermann reaction
  - (D) Gomberg reaction
- 

**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)  $3.8 \times 10^{-7}$
- 

**37. Naturally occurring pilocarpine is:**

- (A) 2R,4R (+) Pilocarpine
- (B) 3S,5R () Pilocarpine
- (C) 2S,4R () Pilocarpine
- (D) 3R,4S (+) Pilocarpine

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**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

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**39. Methotrexate, used as an antimetabolite, is a product of N-methylation of para-aminobenzoic acid and pyridine hydroxyl. The isosteric group is**

(A) SH

(B) CH<sub>3</sub>

(C) NH<sub>2</sub>

(D) CF<sub>3</sub>

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**40. A/B Trans steroidal hydrogen in the 5th position**

(A) Beta configuration

(B) Eclipsed conformation

(C) Alpha configuration

(D) Gauche conformation

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**41. Total Number of Carbon atoms in pregnane is**

(A) 18

(B) 19

(C) 21

(D) 27

---

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

- (A) 4–6
  - (B) 5–8
  - (C) 9–11
  - (D) 7–9
- 

**43. Structure of hybrid in methadone and meperidine**

- (A) Pentazocine
  - (B) Tramadol
  - (C) Methotrexate
  - (D) Labetalol
- 

**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
- 

**45. UV absorbance value of Morphine**

- (A) 266 nm
  - (B) 276 nm
  - (C) 256 nm
  - (D) 286 nm
- 

**46. Complexometric titration indicators Except**

- (A) Mordant black - II
  - (B) Ferroin
  - (C) Catechol violet
  - (D) Xylene orange
- 

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

- (A) KCN
  - (B) Thio glycerol
  - (C) Tri ethanol amine
  - (D) Ammonium Fluoride
- 

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

- (A) Dichlorofluorescein
  - (B) Methyl red
  - (C) Phenolphthalein
  - (D) Xylene orange
- 

**49. Cyanide used in nepheloturbidometry as a salt of**

- (A) Ag
  - (B) Au
  - (C) Na
  - (D) K
- 

**50. How to prepare 200 mL of a 0.15 M sodium hydroxide solution?**

- (A) 1.0 g
  - (B) 1.2 g
  - (C) 1.5 g
  - (D) 1.8 g
- 

**51. Stationary phase for steroidal chromatography is:**

- (A) Acylated paper
  - (B) Carboxy Paper
  - (C) Kieselguhr paper
  - (D) Silica 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
- 

**53. Which of the following is not a Karl Fischer reagent**

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

**54. In Ilkovic equation, m determines**

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

**55. Enzyme activation energy ( $E_a$ ) for thermal decomposition of glucose in a first-order reaction is calculated by**

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

**56. In conductometric titration of acetic acid 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 in the conductance
  - (d) Colour change (orange to red)
- 

**57. Vincristine in ultraviolet spectrophotometry  $\lambda_{max}$  value**

- (a) 217 nm
  - (b) 245 nm
  - (c) 290 nm
  - (d) 360 nm
- 

**58. Which of the following liquids has the highest surface tension at 20°C?**

- (a) Carbon tetrachloride
  - (b) Mercury
  - (c) Oleic acid
  - (d) Octane
- 

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

- (a) Lactose
  - (b) Mannitol
  - (c) Microcrystalline cellulose
  - (d) Dextrose
- 

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

- (a) 15 PPM
  - (b) 20 PPM
  - (c) 25 PPM
  - (d) 50 PPM
-

**61. If the log of microorganisms is plotted against time, an initially straight line results.**

**The inverse slope of this line is called**

- (a) Thermal death line
  - (b) D value
  - (c) Z value
  - (d) Half-life
- 

**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
- 

**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
- 

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

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

**65. A powder has a Carr's compressibility index in the range of 12-16. The flowability of the powder will be**

- (a) Fair
- (b) Excellent

- (c) Good
  - (d) Very poor
- 

**66. As per USP, the maximum concentration of benzalkonium chloride used as a preservative in parenteral formulations is**

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

**67. Which of the following is commonly used as a broad-spectrum preservative in pharmaceutical formulations?**

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

**68. Statement of deflocculated suspension**

- (a) Sedimentation for rapidly
  - (b) Sedimentation for slowly
  - (c) Easy to redisperse
  - (d) Unpleasant in appearance
- 

**69. Common name of convective transport**

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

**70. Particle size range of optical microscopy**

- (a) 500–1000  $\mu$
  - (b) 0.001–0.1  $\mu$
  - (c) 200–500  $\mu$
  - (d) 0.5–1.50  $\mu$
- 

**71. Select the statement of Smectic liquid crystal**

- (a) Mobility in two directions or no rotation
  - (b) Three directions or no rotation
  - (c) Mobility in two directions or rotation in one axis
  - (d) Mobility in three directions or rotation in one axis
- 

**72. The flow of viscosity increases when the substance is sheared. This is known as**

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

**73. Equipment used in structured breakdown of thixotropy**

- (a) Viscometer
  - (b) Planimeters
  - (c) Rotameters
  - (d) Orifice meter
- 

**74. Thixotropic behavior is associated with**

- (a) Increase in viscosity
  - (b) Decrease in viscosity
  - (c) Solid & Liquid behavior
  - (d) Sol-gel transformation
- 

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

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

- (a) Pressure drop in turbulent flow  
(b) Sedimentation velocity  
(c) Heat transfer  
(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) Stokes' equation
- 

**78. The equation**

$$\log \left( \frac{P_1}{P_2} \right) = \frac{2.303 \cdot \Delta H_v \cdot (T_2 - T_1)}{R \cdot T_1 \cdot T_2}$$

**is related to:**

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

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

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

**80. CLASS-II method for tonicity adjustment is:**

- (a) Cryoscopic
  - (b) NaCl Equivalent
  - (c) White Vincent
  - (d) Mole fraction
- 

**81. If the granule density of potassium bicarbonate is 2.350 g/cc and the true density is 3.560 g/cc, determine the interparticle porosity of the powder.**

- (a) 0.56
  - (b) 0.44
  - (c) 0.66
  - (d) 0.34
- 

**82. Triple point of water occurs 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
- 

**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

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**84. Examples of continuous shelf moving dryer are**

- (a) Vacuum dryer
  - (b) Tray dryer
  - (c) Spray dryer
  - (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
- 

**86. Manucol is also known as**

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

**87. Which of the following anticancer drugs produces hand-foot syndrome?**

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

**88. Which of the following is a P2Y enzyme inhibitor?**

- (a) Clopidogrel
- (b) Aspirin

- (c) Dipyridamole
  - (d) Tirofiban
- 

**89. Vigabatrin is an inhibitor of**

- (a) GABA synthase
  - (b) GABA transaminase
  - (c) Voltage-gated Na channel
  - (d) Chloride channel
- 

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

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

**91. Which of the following is an antidote for organophosphorus poisoning?**

- (a) Pralidoxime
  - (b) Naloxone
  - (c) Physostigmine
  - (d) Sodium thiosulfate
- 

**92. Which of the following is a Proliferator-Activated Receptor-Alpha (PPAR-) agonist?**

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

**93. Bambuterol is a prodrug of**

- (a) Salmeterol
- (b) Terbutaline

- (c) Albuterol
  - (d) Theophylline
- 

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

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

**95. Common name of convective transport**

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

**96. After which phase of clinical trials do pharmaceutical companies submit a New Drug Application (NDA) to the regulatory authority?**

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

**97. Match the following:**

- |                      |                  |
|----------------------|------------------|
| I. Alpha ( ) cells   | [P] Glucagon     |
| II. Beta ( ) cells   | [Q] Somatostatin |
| III. Delta ( ) cells | [R] Gastrin      |
| IV. G cells          | [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)-(Q), (IV)-(P)

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

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**98. Which of the following drugs, when given with warfarin, induces hepatic CYP450 enzyme?**

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

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

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

**100. Furosemide mechanism of action**

- (a) Inhibit Na-K-2Cl cotransporter in the ascending limb of Henle
  - (b) Inhibit Na-K cotransporter in the collecting duct
  - (c) Inhibit Na-2Cl cotransporter in the distal loop of Henle
  - (d) Aldosterone antagonist
- 

**101. Match the following drugs and their Mechanism of Action (MOA):**

DRUGS	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

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- (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)

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**102. Match the following Class and their Antiarrhythmic Drug:**

CLASS	DRUGS
(1) Class I	(P) Disopyramide
(2) Class II	(Q) Metoprolol
(3) Class III	(R) Amiodarone
(4) Class IV	(S) Verapamil

(a) (1)-(P), (2)-(Q), (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)

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**103. Which effect is associated with amphotericin B?**

(a) Hyponatremia

(b) Hypokalemia

(c) Hypermagnesemia

(d) Hypercalcemia

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

(a) DNA polymerase

(b) Reverse transcriptase

(c) Neuraminidase

(d) Protease

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**105. Choose the correct match of laxative and its Mechanism of Action (MOA):**

LAXATIVE	MOA
(1) Senna	(P) Osmotic purgative
(2) Lactulose	(Q) Stimulant laxative
(3) Lubiprostone	(R) Fecal softening
(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)

**106. BPALM combination drug names include moxifloxacin**

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

**107. Mirabegron is used in the management of overactive bladder**

- (a) Beta 2 agonist  
 (b) Beta 3 agonist  
 (c) M3 antagonist  
 (d) Beta 1 agonist

**108. Which PDE 4 inhibitor is used in COPD?**

- (a) Montelukast  
 (b) Theophylline  
 (c) Cromoglicate  
 (d) Omalizumab

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

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

**110. If 50% of women who are diagnosed with venous thrombosis are found to be taking oral contraceptives compared to those without thrombosis, which type of study is this?**

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

**111. pH of Jejunum**

- (a)  $6.8 \pm 4$
  - (b)  $1 \pm 4$
  - (c)  $3 \pm 8$
  - (d)  $5 \pm 1$
- 

**112. GnRH agonist EXCEPT**

- (a) Goserelin
  - (b) Gani
  - (c) triptorelin
  - (d) buserlin
- 

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

- (a) Lower PO<sub>2</sub>
- (b) Higher H<sup>+</sup>

- (c) Higher pCO<sub>2</sub>
  - (d) Both (b) and (c)
- 

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

- (1) Alkylating
  - (2) Platinum analog
  - (3) Antimetabolite
  - (4) EGF receptor inhibitor
  - (P) 5-fluorouracil
  - (Q) Cisplatin
  - (R) Cetuximab
  - (S) Chlorambucil
  - (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)
- 

**115. Which of the following nasal decongestants is an  $\alpha_2$  agonist?**

- (a) Oxymetazoline
  - (b) Terbutaline
  - (c) Salbutamol
  - (d) Methotrexate
-