



GPAT-2013

1. What is mechanism of aprotinin
(a) Inhibits Corboxypeptidase (b) Inhibits Plasminogen
(c) Inhibits plasmin (d) Inhibits plasminogen activator
2. Absolute alcohol is prepared from spirit by.....
(a) Distillation (b) Azeotropic distillation
(c) Fractional distillation (d) All of the above
3. A compound with an -OH group and -OR group bonded to the same carbon atom is.....
(a) An actal (b) A hemicacetal (c) A simple ether (d) An aldol
4. The reaction of Grignard reagent with aldehydes and ketones gives alcohols .
This is known as
(a) NEcleophilic addition reaction (b) Necleophillic substitution reaction
(c) Electrophillic substitution reaction (d) Electrophilic addition reaction
5. Osazone is formed by reaction of moles of phenylthdrazine with monosaccharide
(a) 1 (b) 2 (c) 3 (d) 4
6. If a sugar contains..... fuction, it is a reducing sugar
(a) Hemiacetal (b) Acetal (c) Aldehyde (d) Ketal
7. Which of the following criteria should be considered when reviewing a medication for addition to the hospital formulary
(a)The amount of samples provided to hospital physicians
(b)Research funds donated to the hospital by the pharmaceutical company
(c)National adverse drug reaction reports
(d)Whether is a gluten-free oral formulation
8. Identify the GABA reuptake inhibitor
(a) Progabide (b) Tigabine (c) Bicuculline (d) Baclofen
9. What in the reason of complicated penetration of some drugs through brain-blood barrier
(a)High lipid solubility of a drug
(b)High endocytosis degree in a brain capillary
(c)Absence of pores in the brain capillary endothelium
(d)Meningitis
10. Reynold's number is given by.....
(a) $Re = \eta / \rho v D$ (b) $Re = \rho v / \eta D$ (c) $Re = \rho v D / \eta$ (d) $Re = v D / \rho \eta$





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11. The increase in concentration of second messengers (cAMP, cGMP, Ca²⁺ etc.) leads to:
(a) Inhibition of intracellular protein kinases and protein phosphorylation
(b) Protein kinases activation and protein phosphorylation
(c) blocking of interaction between a receptor and an effector
(d) Antagonism with endogenous ligands
12. Which of the following cholinomimetics activates both muscarinic and nicotinic receptors
(a) Lobeline (b) Pilocarpine (c) Carbachol (d) Bethanechol
13. Adverse effect of cerivastatin is
(a) Higher risk of rhabdomyolysis (b) Anaphylaxis
(c) Hepatic disorder (d) Hemolytic anemia
14. Following emigration from blood vessels, leucocyte migration to the site of infection or injury is mediated by
(a) Bradykinin (b) Chemokines and Complements C5a
(c) Histamine (d) Prostaglandins
15. Which of the following is interleukin agonist
(a) Aldesleukin (b) Rituximab (c) Anakinra (d) Etarecept
16. When the angle of repose exceeds....., the powder flow is rarely acceptable for pharmaceutical manufacturing purpose
(a) 25 (b) 30 (c) 50 (d) 60
17. The chelate, EDTA⁴⁻ can be described as what type of chelating ligand
(a) Bidentate (b) Tetradentate (c) hexadentate (d) Tridentate
18. Living cells are negatively charged inside primarily because of.....
(a) ATP, organic acids, and other negative molecules that cannot escape
(b) Removal of sodium ions, which are positively charged, by the Na⁺/K pump
(c) Extrusion of Ca²⁺ ion, which is much more concentrated outside a cell than inside
(d) Cell membranes that are more permeable to potassium than sodium
19. Which of the following drugs requires administration on an empty stomach
(a) Naproxen (b) Levothyroxine (c) Prednisone (d) Nitrofurantoin
20. Which of the following is a non-aqueous binder
(a) Ethyl cellulose (b) Starch (c) Veegum (d) Bentonite
21. Which of the following drugs requires administration on an empty stomach
(a) Cannabichromene (b) Cannabinol
(c) Cannabidiol (d) Tetrahydrocannabinol



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22. What is the osmolality of a solution if one mmole of glucose and two mmoles of NaCl are dissolved in 1 kg of the water
(a) 3 mOsm (b) 4 mOsm (c) 5 mOsm (d) 6 mOsm
23. How much can be the working revolution per minute (RPM) of the ball mill
(a) $23-28 \sqrt{D}$ where D means the diameter of jar
(b) Two times more than the critical revolution per minute
(c) $42.3 \sqrt{D}$ (D=diameter of the jar)
(d) The average of critical RPM and the optional RPM
24. An extension of the normal pharmacological effects of a drug or its metabolite is termed as
(a) Type A ADR (b) Type B ADR (c) Type C ADR (d) Type D ADR
25. Heckel's plot represents
(a) Extent of plastic and elastic deformation of material during compaction
(b) Force-time of force-displacement relationship
(c) Pressure-porosity (volume) relationship
(d) Stress relaxation measurements
26. Which of the following would cause increase in the binding strength at the dry granulation process in significant degree
(a) Carboxymethylamylopectiglycolate (b) Macrogol 4000
(c) Magnesium Stearate (d) Lactose
27. The correct statements concerning concertation microencapsulation
(1) Concertation always leads to monophasic microcapsule
(2) When the gelatin is used for microcapsule's wall material, the concertation is bound to happen
(3) Only gelatin can be used for microcapsule's wall
(4) Simple or compound concertation can be distinguished according to the number of macromolecular colloids taking part in the process
(5) The pH conditions of the system and the solubility of the auxiliary materials do not have any effect on the preparation of the microcapsule
(a) Only 1 and 4 are correct (b) Only 2 and 3 are correct
(c) Only 1 and 5 are correct (d) Only 2 and 4 are correct
28. Cyclohexanone exhibits only peaks in ^{13}C NMR spectrum due to symmetry
(a) 2 (b) 3 (c) 4 (d) 5

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29. If an organic compound does not absorb UV visible radiation it means compound does not contain
- (a) Single bond (b) Sigma bond (c) Conjugated double bond (d) Dative bond
30. Which of the following parameters is/are important in determining bioequivalence
- (a) T_{max} (b) C_{max} (c) AUC and C_{max} (d) AUC
31. What does the Hammett substituent constant (σ) measure
- (a) The steric effect of a substituent (b) The electronic effect of a substituent
(c) The hydrophobic effect of a substituent (d) The effect on pH of a substituent
32. Property exploited by electroanalytical technique of coulometry is.....
- (a) Electric potential (b) Electrical charge
(c) Electrical current (d) Electrical resistance
33. All are true EXCEPT.....
- (a) Soft soaps give emulsions with a pH in the basic range
(b) Hard soaps form water-in-oil emulsions
(c) Water-soluble polymers favor the formation of water-in-oil (w/o) emulsions
(d) On the HLB system, lower numbers are assigned to lipophilic compounds while higher numbers are assigned to hydrophilic compounds
34. In callus culture, roots can be induced by the supply of.....
- (a) Auxin and no cytokinin
(b) Higher concentration of auxin and lower concentration of cytokinin
(c) Higher concentration of cytokinin and lower concentration of auxin
(d) Auxin and cytokinin in equal proportions
35. Deoxy position of deoxyribose in DNA is at.....
- (a) 1st carbon (b) 2nd carbon (c) 3rd carbon (d) 5th carbon
36. All are potent 3A4 inhibitors EXCEPT.....
- (a) antifungals (-azoles) (b) Protease inhibitors (-avir)
(c) Macrolides (-mycin) (d) Barbiturates
37. 'Probability of nonsterility' is given by.....
- (a) F value (b) Z value (c) D value (d) None of the above
38. Which of the following is a selective medium for the growth of vibrio cholerae
- (a) Thayer martin medium (b) Cefoxitin cycloserine fructose agar
(c) Skirrow's medium (d) Thiosulfate citrate bile sucrose agar
39. Specific conductance unit is.....
- (a) Ohm cm^{-1} (b) Mho cm^{-1} (c) Ohm cm (d) None of the above



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40. Karplus curve is associated with which spectroscopy
(a) UV (b) Mass (c) FTIR (d) NMR
41. What are known as balsams
(a) resins dissolved in volatile oil
(b) A mixture of volatile oils with sesquiterpenes
(c) Solidified resin devoid of volatile terpenes
(d) Polysaccharide mixed with volatile oil
42. Sesquiterpenes are formed from In the plants
(a) Farnesyl-pyrophosphate (b) Geranyl farnesyl pyrophosphate
(c) coloring material (d) Degraded products of triterpenes
43. Which of the following is a type of phytoestrogen
(a) Lutein (b) Indoles (c) Isothiocyanates (d) Genistein
44. In adults, drugs are an important cause of Fanconi's syndrome. Drugs that cause Fanconi's Syndrome include which group below. Select One
(a) Antiretroviral agents, aminoglycosides, glucocorticoids
(b) Tenofovir, outdated tetracycline, cisplatin
(c) Cidofovir, galactose supplements, NSAIDs
(d) Cyclosporin, Tenofovir, lamivudine
45. Which of the following is a type of phytoestrogen
(a) F (b) W (c) G (d) Y
46. Which aerosol particles will be deposited in alveoli
(a) $>20 \mu\text{m}$ (b) $<0.6 \mu\text{m}$ (c) 2 and $6 \mu\text{m}$ (d) $1-2 \mu\text{m}$
47. Drugs that show nonlinear pharmacokinetics have which of the following property
(a) A constant ratio of drug metabolites is formed as the administered dose increase.
(b) The elimination half - life increasing as the administered dose increase
(c) The area under the plasma drug concentration versus time curve increasing in direct proportion to an increase in the administered dose.
(d) Both low and high doses follow first order elimination kinetics
(e) The steady state drug concentration increases in direct proportion to the dosing rate
48. Which of the following pair of volumetric method of argentometric titration and indicator used is matched correctly
(1) Fajan's Method Chromate
(2) Mohr's method Fluorescein
(3) Volhard's method Ferric salt
The method and indicator matches correctly in.....
(a) 1 and 2 only (b) 2 and 3 only (c) 3 only (d) 2 only



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49. The reaction of the citric acid cycle that is most similar to the pyruvate dehydrogenase complex catalyzed conversion of pyruvate to acetyl-CoA is the conversion of
(a) Citrate to isocitrate (b) Fumarate to malate
(c) Malate to oxaloacetate (d) α -ketoglutarate to succinyl-CoA
50. Which one of the following pairs of lipids & related compounds exhibit opposite biological activities
(a) 5-HPETE & leukotriene D4 (b) Cholic acid & Lithocholic acid
(c) Neuraminidase Inhibitors (d) Acetone & β -hydroxybutyrate
51. HIV may NOT respond to.....
(a) Nucleoside analogues (b) Protease inhibitors
(c) Neuraminidase inhibitors (d) Reverse transcriptase inhibitors
52. Palmitic, oleic or stearic acid ester of cholesterol used manufacture of cosmetic creams is.....
(a) Oleo oil (b) Lanoline (c) Spermaceti (d) Chaulmoogra oil
53. Appropriate reasons for the deviation form the beer's law among the following are
(P) Mnonchromaticity of light (Q) Very high concentration of analyte
(R) Association of analyte (S) Dissociation of analyte
(a) P, Q AND R (b) Q, R, and S (c) P,R and S (d) P, Q and S
54. An alternaive to glycolysis pathway is.....
(a) Glyoxylate pathway (b) Pentose phosphate pathway
(c) Citric acid cycle (d) Gluconeogenesis
55. LeChatelier's principle states that increasing temperature favors a reaction that.....
(a) Release energy as heat (b) Requires energy as heat
(c) Involves a chemical catalyst (d) Gluconeogenesis
56. In absorption spectrometry, high values of absorbance values (grater than 1 or 2) tend to give poorer precision because
(a) Too much light saturates the detector (b) Little light reaches the detector
(c) Beer's law deviations are worse (d) Monochromators work poorly under intense light
57. According to lipinski's rule of 5 , which of the following properties of drug molecules are likely to cause poor oral absorption
(a) A molecular weight lesser than 500 (b) a log P less than 5
(c) Less than 5 hydrogen bond donors (d) More than 10 hydrogen bond accepters
58. Polarographic method of analysis to obtain indivisual amonuts of Cu^{2+} and Cd^{2+} in a given mixture of the ions (Cu^{2+} and Cd^{2+}) is achieved by measuring their.....
(a) Half way potentials (b) Migration currents



- (c) Decomposition potentials (d) Diffusion currents
59. Which of the following phytohormone usually acts as bud inhibitor
(a) Gibberlin (b) Cytokinin (c) Zeatin (d) Indole Acetic acid
60. The positively polarized carbon atom of a carbonyl group acts as.....
(a) An electrophile and a lewis base (b) A nucleophile and a lewis acid
(c) A nucleophile and a lewis base (d) An electrophile and a lewis acid
61. The Pinene hydrochloride rearranged into bornylterpenoid is called as.....
(a) Wagner-Meerwein rearrangement (b) A nucleophile and a lewis acid
(c) Fries rearrangements (d) Backmann rearrangement
62. The mouse model for type I diabetes mellitus is.....
(a) NZB mouse (b) SCID mouse (c) Nude mouse (d) NOD mouse
63. Cholesterol contributors to Of the biological membrane
(a) Rigidity (b) Fluidity (c) Permeability (d) Osmolality
64. Active site for all serine proteases consists of which triad
(a) Ser-Glu-Asp (b) Ser-Glu-Met (c) Ser-His-Asp (d) Ala-Glu-Met
65. What is the main different between HPLC and UPLC
(a) HPLC is reverse-phase whereas UPLC in normal-phase
(b) UPLC employs smaller stationary-phase particle size
(c) HPLC and UPLC employ different mobile phase
(d) HPLC and UPLC employ different detection methods
(e) HPLC operates at higher mobile phase pressures
66. Which drug is associated with hepatic/ renal toxic metabolite, N-acetyl-pbenzoquinone
(a) Diclofenac (b) Meclofenamate (c) Indomethacin (d) Acetaminophen
67. What is the percentage of chlorpromazine ($pK_a = 9.3$) exiting in ionized form in a solution of chlorpromazine hydrochloride at pH 7.4
(a) 98.76 (b) 1.24 (c) 0.32 (d) 99.68
68. Is needed for suspensions, lotions, emulsions, creams and ointments to keeps a high container consistency and yet pour and spread easily when needed (d) It also is satisfactory for IM slow release yet easy to inject
(a) Thixotropy (b) Rheopexy (c) Rheology (d) Newtonian flow
69. The enzyme superoxide dismutase (SOD) converts
(a) O_2 -to hydrogen peroxide (H_2O_2) (b) Hydrogen peroxide (H_2O_2) to H_2O
(c) H_2O to hydroxyl (OH) radicals (d) O_2 - to O_2



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70. For first order reactions the rate constant, k , has the units as.....
(a) $M s^{-1}$ (b) $M^{-1} s^{-1}$ (c) $M^{-2} s^{-1}$ (d) s^{-1}
71. Which of the following may be used to assess the relative bioavailability of two chemically equivalent drug product in a crossover study
(a) Dissolution test (b) Peak concentration
(c) Time-to-peak concentration (d) Area under the plasma level time curve
72. A 25.0 mL sample of a solution of a monoprotic acid is titrated with a 0.115 M NaOH solution the titration curve shows equivalence point at 7.05. which of the following indicators would be best for this titration
(a) Methyl red (b) Bromthymol blue (c) Thymol blue (d) Phenopltalein
73. Which of the following in termed as mass filter
(a) Time of flight (b) Farady cup (c) Quadupole (d) Ion trap
74. Which of the following is produced in phenyl propanoid pathway
(a) PHenolics (b) Catotenes (c) Alkaloids (d) Terpenes
75. Which of the following is a GLP-1 agonist
(a) Sitagliptin (b) Pramiltide (c) Exenatide (d) Eparlrestat
76. Attachment of polyethylene glycol (PEG) to proteins/ drugs do all of the following EXCEPT
(a) Protect them form rapid hydrolysis or degradation
(b) Improves micromole solubility
(c) Increases absorption form the gut
(d) Minimizing the uptake by the cells of the reticuloendothelial systems
77. Identify the harmful drug-drug interaction
(a) Imipenem- cilastatin (b) L-Dopa-Entacapone
(c) Meperidine- Pargyline (d) Methotrexate- leucovorin
78. Prostaglandin used in the treatment of postpartum hemorrhage is.....
(a) Carboprost (b) Latanoprost (c) Bimatoprost (d) Travoprost
79. Identity 5HT3 receptor antagonist which is 5HT4 agonist also
(a) Metoclopramide (b) Cispride (c) Cilasetron (d) Graniseton
80. Which of the following AT-II receptor antagonists (SARTANs) does not possess tetrazole moiety in its structure
(a) Losartan (b) Irbesartan (c) Telmisartan (d) Valsartan
81. What useful information can be found from a Van Deemter plot



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- (a) Optimum selectivity factor
(b) Optimum mobile phase flow rate
(c) Optimum column temperature
(d) The capacity factor
82. Brockman activity Scale' is used in the characterization of
- (a) Stationary phase
(b) Mobile Phase
(c) Buffer System used
(d) Column specification
83. Drugs that have been found to be useful in one or more types of heart failure include all of the following EXCEPT
- (a) Na⁺/K⁺ ATPase inhibitors
(b) α adrenoceptor agonist
(c) β Adrenoceptor agonists and antagonists
(d) ACE inhibitors
84. Which of the following is selective α₂ selective antagonist
- (a) Clonidine
(b) Prozac
(c) Phentolamine
(d) Yohimbine
85. Which one of the following is NOT a protoplast fusion agent
- (a) Inactivated Sendai Virus
(b) Ca⁺⁺ at alkaline pH
(c) Polythelen glycol
(d) Colchicine
86. Clinically used Labetolol is
- (a) S,S
(b) R, R
(c) R, S
(d) S,R
87. For intramuscular injection, angle of administration is..... Degree
- (a) 30
(b) 45
(c) 60
(d) 90
88. Aromatase is an enzyme complex that is the target for several anticancer drugs. Which of the following anticancer drugs targets aromatase
- (a) Cyproterone acetate
(b) Raloxifene
(c) Aminoglutethimide
(d) Testosterone propionate
89. Vinca alkaloids that are used in combination therapy to treat a variety of tumors. How do cancer cells normally gain resistance to these agents
- (a) Mutation of the target structure
(b) Overexpression of the carrier protein called P- glycoprotein
(c) Increased metabolism of the drug
(d) Decreased ability of the drug to enter target cells
90. A set of closely related genes of genetic markers that are inherited as a single unit is
- (a) Cistron
(b) Gene families
(c) Haplotype
(d) Haploid
91. Which one of the following is used in the Ames test
- (a) E. coli
(b) Streptococcus aureus
(c) Pseudomonas aeruginosa
(d) Salmonella typhimurium



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92. Which of the ultrashort acting adrenergic blocker
(a) Carvedilol (b) Atenolol (c) Esmolol (d) Acetutotol
93. A diode array detector coupled with UV detection is advantageous because it
(a) Covers a range of wavelengths
(b) Allow lower concentrations of analyte to be detected
(c) Speeds up the detection at a single wavelength
(d) Allows a single wavelength of detection to be moreprecisely chosen
94. The LOD of an analysis is at the femtogram level. This corresponds to detection at the
(a) 1 in 10^{-18} level (b) 1 in 10^{-15} level (c) 1 in 10^{-12} level (d) 1 in 10^{-9} level
95. Which are those therapeutic systems, which liberate the active ingredient through a special hole, prepared by laser
(a) TTS patches (b) IUD systems (c) OCUSERT systems (d) OROS systems
96. Which of following chromatographic technique is most suitable for small, nonvolatile water-insoluble solutes
(a) GC (b) Reverse phase LC (c) Normal phase LC (d) SEC
97. Which of the following antiviral agent in not a nucleoside analog
(a) Moroxidin (b) Vidarabine (c) Cytarabine (d) Idoxuridine
98. Regarding two compartment pharmacokinetics all are true EXCEPT
(a) A drug is always removed from the peripheral compartment
(b) A drug with a high volume of distribution is likely to be lipophilic
(c) A drug can have a short duration of action while being eliminated very slowly
(d) Most anesthetic drugs are modelled well with a two-compartment model
99. Match the following biochemical transformations with coenzymes involved
(i) α -Ketoglutarate to glutamic acid (a) Tetrahydrofolate
(ii) Uridine to thymidine (b) NADH
(iii) Pyruvic acid to acetyl coenzyme A (c) Thiamine pyrophosphate
(d) Pyridoxamine
(a) i-d, ii-a, iii-c (b) i-a, ii-b, iii-d (c) i-b, ii-a, iii-c (d) i-d, ii-b, iii-c
100. The FDA allows a maximum of salicylic acid in commercial aspirin tablets
(a) 0.05 % (b) 0.1 % (c) 0.15% (d) 0.25 %
101. A phenolic acid compound isolated from the ripe fruits of myrobalan (karitaki).....
(a) Chebulic acid (b) Ferulic acid (c) Emblicanin (d) Pivalic acid
102. Asafoetida _Nitric acid gives.....
(a) Reddish-brown colour (b) Green colour





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(c) Yellowish-orange colour

(d) Blue fluorescence

103. Endocrine effects of antipsychotic like chlorpromazine include all of the following EXCEPT

- (a) Decrease in adrenocorticotrophins, Decrease in gonadotrophins
- (b) Decrease in release of pituitary growth hormone
- (c) Increase in prolactin secretion
- (d) Decrease in thyroid hormone production

104. The most widely used agent for the treatment of acute gout arthritis is.....

- (a) Indemethacin
- (b) Allopurinol
- (c) Colchicine
- (d) Probenecid

105. Which of the following actions of norepinephrine would be antagonized by prazosin but not by propranolol .

- (a) Increased heart rate
- (b) Mydriasis
- (c) Releases of rennin
- (d) Glycogenolysis

106. Arginine serves as a precursor for which of the vasodilatory product

- (a) Bradykinin
- (b) Atrial natriuretic peptide
- (c) Nitrous oxide
- (d) L- Citrulline

107. Which of the following is a test of digitoxose

- (a) Keller Kiliani's
- (b) Kedde's reagent
- (c) Raymond's reagent
- (d) Baljet's reagent

108. The V_d for phenytoin is 70 L and half life is 1.5 hours. What is the total clearance of phenytoin

- (a) 34.32 L/h
- (b) 32.34 L/h
- (c) 151.5 L/h
- (d) 51.51 L/h

109. For electrophilic aromatic substitution reactions, which substituent possesses all of the following properties

- (1) Inductive electron withdrawer
- (2) Electron donor by resonance
- (3) Ring deactivator

- (a) -Cl
- (b) -NO₂
- (c) -COCH₃
- (d) -OCH₃

110. Phenothiazine is obtained by.....with sulfur

- (a) Cyclization of dibenzyl
- (b) Cyclization of diphenyl amine
- (c) Reduction of diphenyl amine
- (d) Reduction of dibenzyl amine

111. Vitamin K is constituted ofring

- (a) Hydroquinone
- (b) Naphthoquinone
- (c) Lonone
- (d) Denzimidazole

112. To balance intellectual property protection, competition and access to affordable prescription drug, the act made by US government is

- (a) Drug Price Competition act
- (b) Patent term Restoration act



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(c) Hatch-Waxman act

(d) Orphan Drug Act

113. Ginseng saponins belong to the series of.....

(a) Lupane

(d) Brsane

(c) Oleanane

(d) Dammrane

114. Stokes Einstein equation to the series of.....

(a) Enegy changes in Sedimentaiton suspension setting

(b) Sedimetation of suspention

(c) Diffusion coefficient

(d) Coefficient of energy consumption

115. The source of radiation for FAR IR spectrometer is.....

(a) Golay cell

(b) Nernst glower and globar

(c) Mercury lamp

(d) Highly heated tungsten filament

116. Which of the following alkaloids derived from lysine

(a) Emtin

(b) Cinchonidin

(c) Brucin

(d) Lobelin

117. The agent that can only be given intravenously for heart failure is.....

(a) Digoxin

(b) Amiodarone

(c) Quinidine

(d) Dobutamine

118. A prescription order for an antibiotic preparation includes the directions "ii gtt AU q.i.d" what auxiliary label should be affixed to the prescription order container

(a) Take with meals

(b) For the eye

(c) For rectal use

(d) For the ear

119. Which one of the following amino acid residues is specifically recognized by chymotrypsin during peptide bond cleavage

(a) Phe

(b) Leu

(c) Val

(d) Asp

120. Gridnard test is used for the detection of.....

(a) Falavonoids

(b) S- glycosides

(c) Cyanogenetic glycosides

(d) O-glycosides

121. Which hormone works antagonistically to parathormone.....

(a) Triiodothyronine

(b) Insulin

(c) Estrogen

(d) Calcitronin

122. Synthesis of thyroid hormone in inhibited by all EXCEPT.....

(a) Propyl thiouracil

(b) Methimazole

(c) Perchlorate

(d) Diatrzoate

123. Alkaline hydrolysis of one mole of + γ -Ruxilline yields.....

(a) γ - Ecgonine base (one mole) + γ -Truxillic acid (one mole) + Methanol (one mole)

(b) Methyl ecgonine base + γ -truxillic acid(one mole)

(c) Methyl ecgonine base (one mole) + γ -truxillic acid (one mole) + Methanol (two moles)

(d) Ecgonine base (two moles) + γ -Truxillic acid (one mole)+ Methanol (two Moles)





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124. Which of the following is a common herbal remedy for insomnia
(a) Milk thistle (b) Echinacea (c) Eucalyptus (d) Valerian

125. In which category of in vitro in vivo correlation the mean in vitro dissolution time is compared either to the mean residence time of to the mean residence time or to the mean in vivo dissolution time
(a) A (b) B (c) C (d) D

Answer 2013

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

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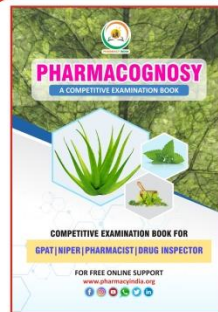
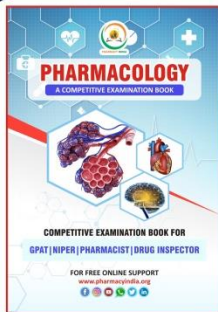


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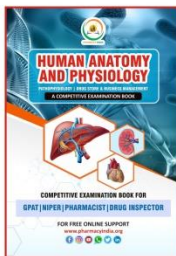
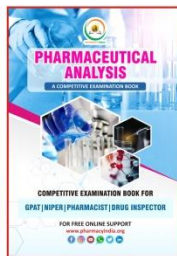
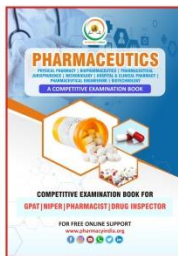
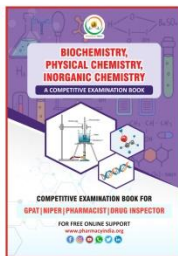
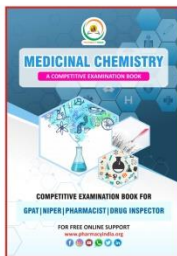
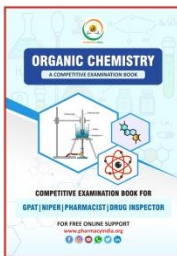
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