

Pharmaceutics

- Which one of the following is NOT an ex-officio member of Pharmacy Council of India
 - The Director General of Health Services
 - The Director of Central Drugs Laboratory
 - The Drugs Controller General of India
 - The Director of Pharmacopoeia Laboratory
- In which of the following techniques the sample is kept below triple point
 - Lyophilization
 - Spray drying
 - Spray congealing
 - Centrifugation
- Class 100 area is referred to
 - Manufacturing area
 - Aseptic area
 - Clean room
 - Ware house
- How many ml of a 1:500 w/v stock solution should be used to make 5 liters of 1:2000 w/v solution
 - 750 ml
 - 1000 ml
 - 1250 ml
 - 1500 ml
- The Volume of distribution of a drug administered at a dose of 300 mg and exhibiting 10 microgram/ml. instantaneous concentration in plasma shall be
 - 10 L
 - 100 L
 - 1.0 L
 - 0.10 L
- It is required to maintain a therapeutic concentration of 10 microgram/ml. for 12 hours of a drug having half life of 1.386 hr and Vd of 5 L. The dose required in a sustained release product will be
 - 600 mg
 - 300 mg
 - 30 mg
 - 60 mg
- A drug (200 mg dose) administered in tablet form and as intravenous injection (50 mg dose) showed AUC of 100 and 200 microgram hr/ml, respectively. The absolute bioavailability of the drug through oral administration is
 - 125%
 - 250%
 - 12.5%
 - 1.25%
- Drugs in suspensions and semi-solid formulations always degrade by
 - First order kinetics
 - Second order kinetics
 - Zero order kinetics
 - Non-linear kinetics
- In nail polish, following polymer is used as a film former
 - Nitrocellulose
 - Polylactic acid
 - Hydroxypropyl methylcellulose
 - Cellulose acetate phthalate
- Coulter counter is used in determination of
 - Particulate surface area
 - Particulate size
 - Particle volume
 - All of these
- Drugs following one compartment open model pharmacokinetics eliminate
 - Bi-exponentially
 - Tri-exponentially
 - Non-exponentially
 - Mono-exponentially
- The temperature condition for storage of drug products under cold temperature is given as
 - Temperature between 8°C and 25°C
 - Temperature below 20°C
 - Temperature at 0°C
 - Temperature between 2°C and 8°C
- Glass transition temperature is detected through
 - X-Ray diffractometry
 - Solution calorimetry
 - Differential scanning calorimetry
 - Thermogravimetric analysis
- What quantities of 95 % v/v and 45 % v/v alcohols are to be mixed to make 800 ml of 65 % v/v alcohol
 - 480 ml of 95 % and 320 ml of 45% alcohol
 - 320 ml of 95 % and 480 ml of 45 % alcohol
 - 440 ml of 95 % and 360 ml of 45 % alcohol
 - 360 ml of 95 % and 440 ml of 45 % alcohol
- The role of borax in cold creams is
 - Anti-microbial agent
 - To provide fine particles to polish skin
 - In-situ emulsifier
 - Antioxidant
- Humectants added in cosmetic preparations generally act by
 - Hydrogen bond formation
 - Covalent bond formation
 - Complex formation
 - The action of London forces
- In the mixing of thymol and menthol the following type of incompatibility occurs
 - Chemical incompatibility
 - Therapeutic incompatibility
 - Physical incompatibility
 - Tolerance incompatibility
- Bloom strength is used to check the quality of
 - Lactose
 - Ampoules
 - Hardness of tablets
 - Gelatin
- The characteristic of non-linear pharmacokinetics include
 - Area under the curve is proportional to the dose
 - Elimination half-life remains constant
 - Area under the curve is not proportional to the dose
 - Amount of drug excreted through remains constant
- In the Drugs and Cosmetics Act and Rules, the Schedule relating to GMP is
 - Schedule M
 - Schedule C
 - Schedule Y
 - Schedule H

21. Thioglycolic acid-like compounds have applications in following type of cosmetic formulations
 (a) Depilatory preparations (b) Epilatory preparations
 (c) Vanishing creams (d) Skin tan preparations

22. Which one of the following is a flocculating agent for a negatively charged drug
 (a) Aluminium chloride (b) Bentonite
 (c) Trapanth (d) Sodium biphosphate

23. The healing agent used in hand creams is
 (a) Soft paraffin (b) Urea
 (c) Bees wax (d) Stearyl alcohol

24. Measurement of julio renal clearance is a measure for
 (a) Effective renal blood flow
 (b) Renal drug excretion rate
 (c) Active renal secretion
 (d) Glomerular filtration rate

25. Highly branched three dimensional macromolecules with controlled structures with all bonds originating from a central core are known as
 (a) Cyclodextrins (b) Dextrans
 (c) Dendrimers (d) Liposomes

26. Which one of the following is the commonly used bulking agent in the formulation freeze dried bow dose drug products
 (a) Sodium chloride (b) Mannitol
 (c) Starch (d) HPMC

27. The applicability of Noyes -Whitney equation is to describe
 (a) First order kinetics (b) Zero order kinetics
 (c) Mixed order kinetics (d) Dissolution rate

28. Which filler can NOT be used for the preparation of tablets for amine containing drugs to avoid discolouration of the tablets
 (a) Dicalcium phosphate (b) Microcrystalline cellulose
 (c) Starch (d) Lactose

29. The ability of human eye using illuminated area to detect a particle is limited to
 (a) 0.4 micron (b) 25 micron
 (c) 50 micron (d) 10 microns

32. Which one of the following drugs is prescribed for the treatment of Philadelphia chromosome positive patients with chronic myeloid Leukemia
 (a) Pentostatin (b) Methotrexate
 (c) Imatinib (d) L-Asparaginase

33. Which of the following monoclonal antibodies is prescribed for patients with non Hodgkin's Lymphoma
 (a) Infliximab (b) Abciximab
 (c) Gemtuzumab (d) Rituximab

34. Identify the drug which is NOT used in the treatment of malaria caused by *Plasmodium falciparum*
 (a) Artemisinin (b) Primaquine
 (c) Quinine (d) Mefloquine

35. Which one of the following drugs does NOT act through G-Protein coupled receptors
 (a) Epinephrine (b) Insulin (c) Dopamine (d) TSH

36. Nicotinic action of Acetylcholine is blocked by the drug
 (a) Atropine (b) Carvedilol
 (c) Neostigmine (d) d-Tubocurarine

37. Which one of the following drugs is most effective in preventing transmission of virus from the mother to the foetus
 (a) Lamivudine (b) Zidovudine
 (c) Indinavir (d) Ribavirin

38. Improvement of memory in Alzheimer's disease is brought about by drugs which increase transmission in
 (a) Cholinergic receptors (b) Dopaminergic receptors
 (c) GABAergic receptors (d) Adrenergic receptors

39. Which of the following non-opioid analgesic is a prodrug
 (a) Piroxicam (b) Celecoxib
 (c) Nabumetone (d) Ketorolac

40. Which one of the following drugs is NOT a typical anti-psychotic agent
 (a) Chlorpromazine (b) Haloperidol
 (c) Risperidone (d) Flupenthixol

41. Which one of the followings is a plasminogen activator
 (a) Tranexamic acid (b) Streptokinase
 (c) Aminocaproic acid (d) None of these

42. Myasthenia gravis is diagnosed with improved neuromuscular function by using
 (a) Donepezil (b) Edrophonium
 (c) Atropine (d) Pancuronium

43. Which one of the following drugs specifically inhibits calcineurin in the activated T-lymphocytes
 (a) Daclizumab (b) Prednisone
 (c) Sirolimus (d) Tacrolimus

44. Which one of the followings is used as a mood stabilizer for bipolar disorder and also in certain epileptic convulsions
 (a) Phenytoin (b) Lithium
 (c) Sodium valproate (d) Fluoxetine

45. Streptomycin can NOT be given orally for treatment of tuberculosis because
 (a) It gets degraded in the GIT
 (b) It causes severe diarrhoea

Pharmacology

30. Many xenobiotics are oxidized by cytochrome P450 in order to
 (a) Increase their biological activity
 (b) Increase their disposition in lipophilic compartments of the body
 (c) Increase their aqueous solubility
 (d) All of the above

31. Sildenafil is used for treatment of one of the following Disorders
 (a) Systolic hypertension
 (b) Unstable angina
 (c) Pulmonary hypertension
 (d) Hypertension due to eclampsia

Pharmacognosy

58. The chemical behaviour of Morphine alkaloid is
(a) Acidic (b) Basic (c) Neutral (d) Amphoteric

59. Cardiac glycosides have the following configuration in the aglycone part of the steroid nucleus
(a) $5\alpha, 14\alpha$ (b) $5\alpha, 14\beta$
(c) $5\beta, 14\alpha$ (d) $5\beta, 14\beta$

60. Quassia wood is adulterated with
(a) Brucea antidysentrica
(b) Cassie ungest
(c) Cinnamomum zeylanicum
(d) Cephaelis ipecacuanaha

61. Eugenol is present in
(a) Fennel (b) Tulsi (c) Cardamom (d) Coriander

62. The vitamin essential in tissue culture medium is
(a) Pyridoxine (b) Thiamine
(c) Nicotinic acid (d) Inositol

63. Ginkgo biloba is used for its
(a) Expectorant activity (b) Lipid lowering activity
(c) PAF antagonistic activity (d) Antidepressant activity

64. The amount of barbakin present in Aloe vera is
(a) $<1\%$ (b) 35-4% (c) 1-15% (d) 2-2.5%

65. Choose the right combination
(a) Quinine, antimalarial isoquinoline alkaloid
(b) Reserpine, antihypertensive, indole alkaloid
(c) Quantitative microscopy, stomatal number, myrrh
(d) Palmitic acid salicylic acid fatty acids

66. Triterpenoids are active constituents of
(a) Jaborandi (b) Rhubarb
(c) Stramonium (d) Brahmi

67. Alkaloids are NOT precipitated by
(a) Mayer's reagent (b) Dragendorff Reagent
(c) Picric acid (d) Millon's reagent

68. Anisocytic stomata are present in
(a) Senna (b) Digitalis
(c) Belladonna (d) Coca

69. Bacopa monnieri plant belongs to the family
(a) Scrophulariaceae (b) Leguminosae
(c) Polygalaceae (d) Rubiaceae

70. Tropane alkaloids are NOT present in
(a) Datura stramonium (b) Erythroxylum coca
(c) Duboisia myoporoides (d) Lobelia inflata

71. Guggul lipids are obtained from
(a) Commiphora malmol (b) Boswellia serrata
(c) Commiphora wightii (d) Commiphora abyssinica

72. An example of N-glycoside is
 (a) Adenosine (b) Sinigrin
 (c) Rhein-8-glucoside (d) Aloin

73. One mg of Lycopodium spores used in quantitative microscopy contains an average of
 (a) 94,000 spores (b) 92,000 spores
 (c) 90,000 spores (d) 91,000 spores

Pharmaceutical Chemistry

74. Proton pump inhibitors like Omeprazol and Lansoprazole contain the following ring System
 (a) Pyrimidine (b) Benzimidazole
 (c) Benzothiazole (d) Chandole

75. In Thisrides following substituent is essential for diuretic activity
 (a) Chiro group at position 6
 (b) Methyl group at position 2
 (c) Sulphamoyl group at position 7
 (d) Hydrophobic group at position 3

76. Artemisinin contains the following group in its structure
 (a) An endo peroxide (b) An exoperoxide
 (c) An epoxide (d) An acid hydrazide

77. Chemical nomenclature of Procaine is
 (a) 2-Diethyl amino ethyl 4 amino benzoate
 (b) N, N-Diethyl 4-amino benzoate
 (c) 4-Amino benzamido ethyl amine
 (d) 4-Amino-2-diethylamino ethyl benzoate

78. Barbiturates with substitution at the following position possess acceptable hypnotic activity
 (a) 1,3-Disubstitution (b) 5,5-Disubstitution
 (c) 1,5-Disubstitution (d) 3,3-Disubstitution

79. Amitriptyline is synthesized from the following starting material
 (a) Phthalic anhydride (b) Terephthalic acid
 (c) Phthalmic acid (d) Phthalimide

80. The common structural feature amongst the three categories of anti-convulsant drugs Barbiturates, Succinimides and Hydantins is
 (a) Ureide (b) Imidazolidinone
 (c) Dihydropyrimidine (d) Tetrahydropyrimidine

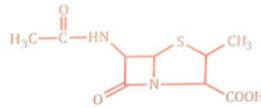
81. Ethambutol molecule has
 (a) Two chiral centers and 3 stereoisomers
 (b) Two chiral centers and 4 stereoisomers
 (c) Two chiral centers and 2 stereoisomers
 (d) One chiral center and 2 stereoisomers

82. An Isosteric replacement for carboxylic acid group is
 (a) Pyrrole (b) Isoxazo (c) Phenol (d) Tetrazole

83. The given antibiotic is an example of ansamycins
 (a) Roxithromycin (b) Adriamycin
 (c) Aureomycin (d) Rifamycin

84. For glyburide, all of the following metabolic reactions are highhead EXCEPT
 (a) O-demethylation (b) Aromatic oxidation
 (c) Benzylic hydroxylation (d) Amide hydrolysis

85. At physinkgical pl the following compound would be mostly in the
 (a) Cationic form (b) Unionized form
 (c) Zwitterionic form (d) Anionic form



Pharmaceutical Analysis

86. In Gas Liquid Chromatography, some of the samples need to be derivatized in order to increase their
 (a) Volatility (b) Solubility
 (c) Thermal conductivity (d) Polarizability

87. Indicate the HPLC detector that is most sensitive to change in temperature
 (a) PDA detector (b) Refractive Index detector
 (c) Electrochemical detector (d) Fluorescence detector

88. One of the following statements is NOT true
 (a) Accuracy expresses the correctness of measurement
 (b) Precision represents reproducibility of measurement
 (c) High degree of precision implies high degree of accuracy also
 (d) High degree of accuracy implies high degree of precision also

89. A compound will be sensitive towards IR radiation only when one of the following properties undergo transition on
 (a) Polarizability (b) Dielectric constant
 (c) Dipole moment (d) Refractivity

90. X-ray crystallographic analysis of an optically active compound determines its
 (a) Optical rotatory dispersive power
 (b) Absolute configuration
 (c) Relative configuration
 (d) Optical purity

91. Which one of the following statements is WRONG
 (a) A singlet or triplet state may result when one of the electrons from the HOMO is excited to higher energy levels
 (b) In an excited singket state, the spin of the electron in the higher energy orbital is paired with the electron in the ground state orbital
 (c) Triplet excited state is more stable than the singlet excited state
 (d) When the electron from the singlet excited state returns to ground state, the molecule always shows fluorescence phenomenon

92. Purity of water can lie assessed by determining one of its following properties instrumentally
 (a) pH (b) Hefractivity
 (c) Viscosity (d) Candactivity

93. Which one of the following statements is WRONG.
 (a) Carbon NM has sensitivity than proton M
 (b) ^{12}C nucleus is not magnetically active
 (c) Both C and have same spin quantities numbers
 (d) The gyromagnetic ratio of ^1H

94. In organic molecules fluorescence than that of C seldom results from absorption of UV radiation of wavelengths longer than
 (a) 350 nm (b) 200 nm (c) 300 nm (d) 250 nm

Other Subjects

95. Aminotransferases usually require the following for their activity
 (a) Niacinamide (b) Vitamin B12
 (c) Pyridoxal phosphate (d) Thiamine

96. In the TCA cycle, at which of the following enzyme-catalyzed steps, incorporation of elements of water into an intermediate of the cycle takes place
 (a) Citrate synthase (b) Aconitase
 (c) Malate dehydrogenase (d) Succinyl Co-A synthase

97. The rate limiting step in cholesterol biosynthesis is one of the following
 (a) LDL-receptor concentration
 (b) VLDL secretion
 (c) Mevalonic acid formation
 (d) Co-enzyme A formation

98. Oxidative phosphorylation involves
 (a) Electron transport system
 (b) Substrate level phosphorylation
 (c) Reaction catalyzed by succinic thiokinase in TCA cycle
 (d) None of the above

99. The following protein/polypeptide has a quaternary structure
 (a) Co-Chymotrypsin (b) Hemoglobin
 (c) Insulin (d) Myoglobin

100. Rabies vaccine (living) is prepared using
 (a) Sheep blood (b) Mice lymph
 (c) Horse plasma (d) Fertile eggs

Answer Key

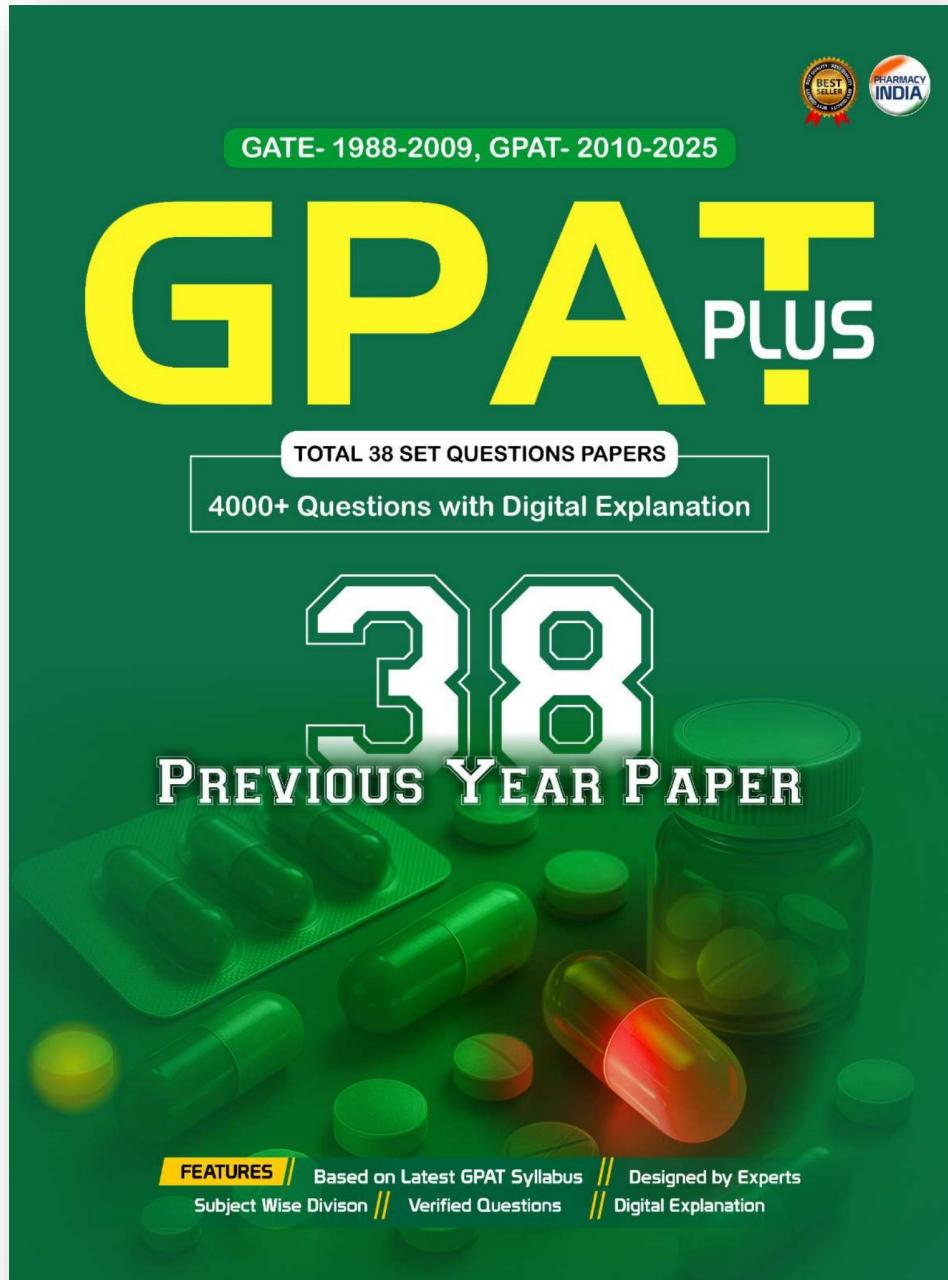
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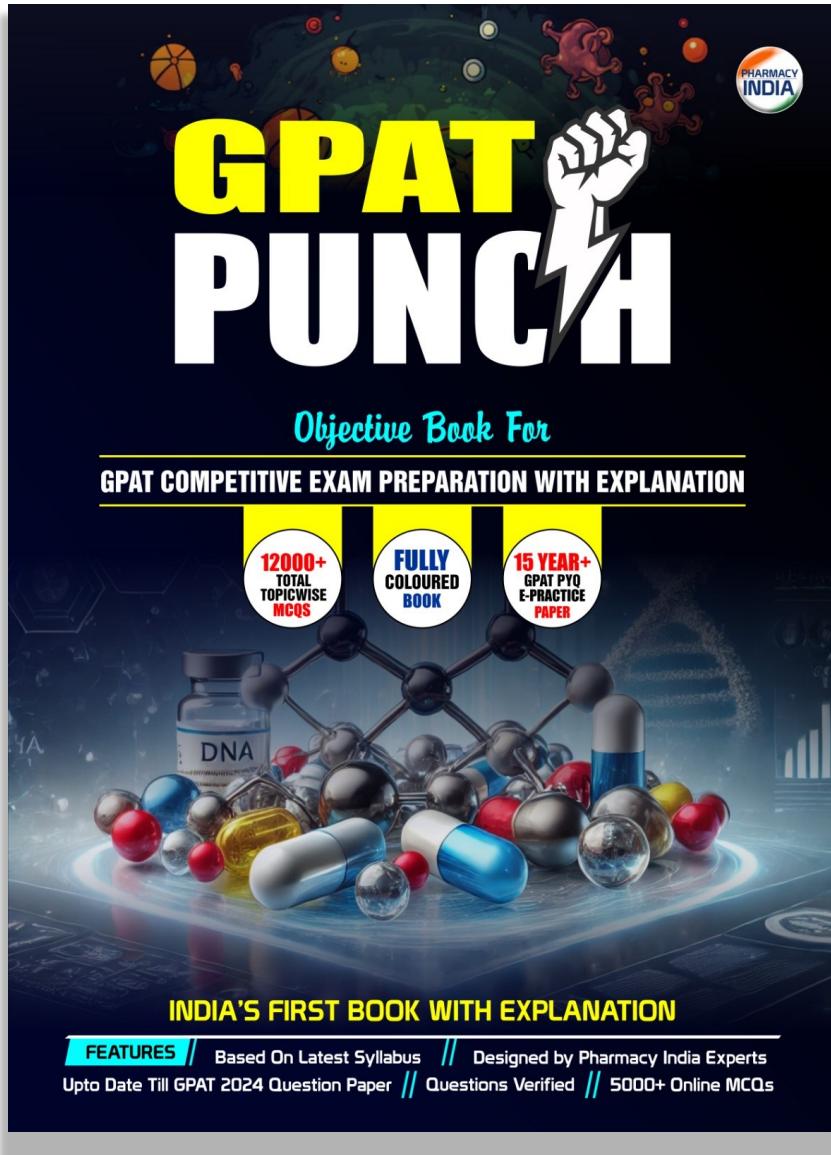
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