

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

# **MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

**PREPARED BY**

**DR. NAITIK D. TRIVEDI,**

**M. PHARM, PH. D**

**LECTURER AT GOVERNMENT AIDED,**

**A. R. COLLEGE OF PHARMACY & G. H. PATEL INSTITUTE OF  
PHARMACY, VALLABH VIDYANAGAR, ANAND.**

**Mobile: +91 - 9924567864**

**E-mail: [mastermindnaitik@gmail.com](mailto:mastermindnaitik@gmail.com)**

**&**

**DR. UPAMA N. TRIVEDI,**

**M. PHARM, PH. D**

**ASSOCIATE PROFESSOR & HoD (Pharm.D),**

**INDUBHAI PATEL COLLEGE OF PHARMACY AND RESEARCH  
CENTRE, DHARMAJ.**

**E-mail: [ups.aasthu@gmail.com](mailto:ups.aasthu@gmail.com)**

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

### TEST PAPER 1

1. Which of the following anti-arrhythmic drug is having Iodine?

- A. Disopyramide
- B. Flecainide
- C. Amiodarone
- D. Quinidine

2. The quality of Coca leaves is mainly dependent on which of the following constituents?

- A. Cocaine
- B. Truxilline
- C. Ecgonine
- D. Cinnamyl cocaine

3.  $\text{CH}_3\text{O}^- \text{Na}^+ + \text{CH}_3\text{Cl} \rightarrow \text{CH}_3\text{OCH}_3 + \text{NaCl}$

The above reaction is an example for which of the following?

- A. Williamson reaction
- B. Clemmenson reaction
- C. Wuotz's reaction
- D. Reformatsky reaction

4. Which of the following gelatine concentration is used to determine the viscosity of gelatine used for the preparation of soft gelatine capsules?

- A. 6 2/3 %
- B. 7 2/3%

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

C. 5 2/3 %

D. 6 3/4%

5. Which of the following group is detected by using Herzig Meyer method?

A. Alkyl group

B. Hydroxy group

C. Alkoxy group

D. N-alkyl group

6. Which of the following drug blocks the sodium channel and dissociates slowly?

A. Quinidine

B. Lignocaine

C. Flecainide

D. Procainamide

7. According to Drugs and Cosmetics act, List of substances that should be sold by retail only on prescription of registered medical practitioner is given in which of the following Schedule?

A. Schedule 'H'

B. Schedule 'V'

C. Schedule 'X'

D. Schedule 'Q'

8. In HPLC, which pump gives a mobile phase flow rate dependent on column permeability?

A. Constant pressure pumps

B. Constant displacement pumps

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

C. Reciprocating pumps

D. Pneumatic pumps

9. Which of the following organism is the Source for amphotericin?

A. Streptomyces immodosus

B. Streptomyces nodosus

C. Streptomyces griseus

D. Streptomyces aureofaciens

10. Which of the following drug produces gastric irritation after micronization?

A. Phenobarbital

B. Tetracycline

C. Erythromycin

D. Nitrofurantoin

11. Adult dose of a drug is 150 mg/kg and the drug is available as tablets of 2 mg strength. Calculate the dosed required for a boy of age 14 yrs and weight of 35 kg?

A. 74.9 mg

B. 78 mg

C. 82 mg

D. 80 mg

12. Which of the following method is used to measure respiratory efficiency of cells in cell culture?

A. Fluroscein Diacetate method

B. Reduction of tetrazolium salts

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

- C. Evan's blue method
- D. Calcofluor white method

13. Which of the following Dopaminergic agonist used in the treatment of Parkinsonism?

- A. Levodopa
- B. Carbidopa
- C. Mirtazapine
- D. Ropinirole

14. What is the principle involved in the VDRL test?

- A. Agglutination
- B. Precipitation
- C. Flocculation
- D. Opsonisation

15. Prazocine is a derivative of which of the following?

- A. Quinazoline
- B. Phthalazine
- C. Quinoline
- D. Isoquinoline

16. Bladder toxicity is the side effect of which of the following drug?

- A. Vincristine
- B. Cyclophosphamide
- C. 5-Flouro Uracil

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

D. Doxorubicin

17. Which of the following is a prototype of Sedative?

A. Chloral hydrate

B. Chloral

C. Chloroquine

D. Chlorpheniramine

18. If the half life for decomposition of a drug is 12 hrs, how long will it take for 125 mg of the drug to decompose by 30 %? Assume that the drug follows first order kinetics at constant temperature.

A. 6.1 hr

B. 8.2 hr

C. 7.9 hr

D. 5.5 hr

19. Which of the following is used as Cuticle Remover?

A. Nitrocellulose

B. Mineral oil

C. Trisodium phosphate

D. Acetoglyceride

20. Which of the following amino acid is present in Captopril?

A. Glycine

B. Cysteine

C. Proline

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

D. Para Amino benzoic acid

21. Which of the following is the biosynthetic origin for an amino alkaloid Ephedrine?

A. Phenyl alanine and Ornithine

B. Phenyl alanine and Pyruvic acid

C. Histidine and Threonine

D. Tyrosine and Dihydroxy phenyl alanine

22. The breakdown of fibrin is catalysed by

A. Plasmin

B. Renin

C. Urokinase

D. Ptyalin

23. One of the following is B-2 stimulant

A. Caffeine

B. Salbutamol

C. Propranolol

D. Betahistidine

24. Metastable peaks are always present at

A. Even mass numbers

B. Integral mass numbers

C. Odd mass

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

D. Non-integral mass

25. Which of the following antacid produces constipation?

A. Sodium citrate

B. Magnesium hydroxide

C. Magnesium trisilicate

D. Aluminium hydroxide gel

26. Calculate the amount of sodium chloride required to make 1.5 % solution of pilocarpine HCl isotonic with tear secretion? (Freezing point depression of 1 % pilocarpine HCl is  $-1.20^{\circ}\text{C}$  and that of sodium chloride is  $-0.576^{\circ}\text{C}$ ).

A. 0.564 % w/v

B. 0.712 % w/v

C. 0.224 % w/v

D. 0.693 % w/v

27. Lecithin is incorporated in shampoos as

A. Conditioning agent

B. Clarifying agent

C. Opacifying agent

D. pH adjusting agent

28. What is the % of ionisation of a drug with pKa 5 at pH 8?

A. 99.9 %

B. 99.99 %

C. 90 %



**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

D. 99 %

29. Which of the following antihypertensive drug used in the treatment of alopecia?

- A. Minoxidil
- B. Diazoxide
- C. Reserpine
- D. Hydralazine

30. What is the use of infusion of Tulsi leaves?

- A. Insecticidal
- B. Spasmolytic
- C. Stomachic
- D. Stimulant

31. The conductivity of the solution of an electrolyte is

- A. Independent of Temperature
- B. Dependent of Temperature
- C. Dependent of Both Temperature and Pressure
- D. Dependent of Pressure applied

32. Which of the following is the active metabolite of Quinidine?

- A. 3-Hydroxy quinidine
- B. 3-hydroxy quinine
- C. 2-Hydroxy quinidine
- D. 2-hydroxy quinine

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

33. Which of the following drug is aldehyde Dehydrogenase inhibitor?

- A. Sedative
- B. Hypnotic
- C. Disulfiram
- D. Methyl alcohol

34. Which of the following method is suitable for the sterilization of bone and tissue transplants?

- A. Ionizing radiation
- B. Gaseous sterilization
- C. Dry heat sterilization
- D. Moist heat sterilization

35. What is the location of chlorine in Chloroquine?

- A. 4
- B. 5
- C. 6
- D. 7

36. Which of the following amino acids contains imidazole ring?

- A. Histidine
- B. Asparagine
- C. Tryptophan
- D. Proline

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

37. The Allergic reaction caused by tetracycline is

- A. Decrease in B.P.
- B. Dermatitis
- C. Urticaria
- D. Leucopenia

38. One nanometer is equal to

- A. 10<sup>-10</sup> cm
- B. 10<sup>-7</sup> cm
- C. 10<sup>-4</sup> cm
- D. 10<sup>-8</sup> cm

39. Which of the following is not an example for synthetic hair dye?

- A. Para toluene diamine
- B. p-phenylenediamine
- C. Sulpho-ortho-amino phenol
- D. Lead acetate with precipitated sulphur

40. Which of the following drying method under controlled conditions results in changes in chemical composition?

- A. Processing
- B. Mulching
- C. Curing
- D. Fermentation

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

41. Which of the following is used in the Montoux test?

- A. Old tuberculin
- B. Diphtheria toxin
- C. Serum antigen
- D. Polysaccharide antigen

42. Which of the following is the starting material for the biosynthesis of l-Hyoscyamine?

- A. Tyrosine
- B. Alanine
- C. Valine
- D. Phenyl alanine

43. How much sodium chloride is required to render 100 ml of a 1 % solution of apomorphine hydrochloride isotonic with blood serum? (Freezing point depression of 1 % solution of drug is - 0.080C and that of sodium chloride is - 0.580C).

- A. 0.76 %
- B. 0.89 %
- C. 0.96 %
- D. 1.86 %

44. Which of the following antibiotics acts by damaging cytoplasmic membrane?

- A. Nevirapine
- B. Quinolones
- C. Colistin
- D. Vancomycin

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

45. Which of the following is an example for the transport protein?

- A. Keratin
- B. Myosin
- C. Pepsin
- D. Albumin

46. Antihypertensive drug which inhibits the rennin angiotensin system is

- A. Reserpine
- B. Captopril
- C. Methyl Dopa
- D. Propranolol

47. What is the drug of choice in ringworm infections?

- A. Albendazole
- B. Clotrimazole
- C. Nystatin
- D. Griseofulvin

48. DPT is an example for

- A. Active acquired immunity
- B. Passive acquired immunity
- C. Active Innate immunity
- D. Natural acquired immunity

49. Which of the following member is an ex-officio member of the State Pharmacy council?

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

- A. Chief pharmacist of Government hospital
- B. Chief Administrative medical officer of the State
- C. Registered pharmacist
- D. Assistant drug controller

50. Which of the following antidote antagonize the peripheral action of Organophosphorus compounds?

- A. Atropine
- B. Aspirin
- C. Charcoal
- D. Caffeine

51. Which of the following Quinoline derivatives is used in the treatment of bacillary dysentery?

- A. Nalidixic acid
- B. Naphthaquinone
- C. Quinoline
- D. Anthraquinone

52. Polarogram of a solution containing an electro-reducible substance is obtained by plotting

- A. Potential Vs Volume
- B. Current Vs Volume
- C. Resistance Vs Time
- D. Current Vs Potential

53. Which of the following is used for the assessment of growth in suspension culture?

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

- A. Packed cell volume
- B. Fluroscein Diacetate method
- C. Reduction of tetrazolium salts
- D. Calcofluor white method

54. Which of the following is the synthetic membrane?

- A. Cetyl alcohol
- B. Cholesterol
- C. Myricyl alcohol
- D. n – Octanol

55. Calculate bulk density of paracetamol granules having a true density of 1.8 and % porosity of 60?

- A. 1.098
- B. 1.08
- C. 0.72
- D. 1.79

56. How many number of ester bonds present in phospholipids?

- A. 4
- B. 3
- C. 2
- D. 5

57. Which of the following is the synthetic derivative of Opium alkaloid?

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

- A. Papaverine
- B. Heroin
- C. Pethidine
- D. Thebaine

58. Statto - Oto method is used for the isolation of which of the following?

- A. Carbohydrates
- B. Glycosides
- C. Volatile oils
- D. Lipids

59. Which of the following disease susceptibility can be determined by Shick test?

- A. Measles
- B. Diphtheria
- C. Polio
- D. Typhoid

60. Monoamine Oxidase is located in which of the following?

- A. Mitochondria
- B. RER
- C. Plasma
- D. Intestine

61. Which of the following is the IUPAC name for Progesterone?

- A. Pregn-2-ene-3, 20-dione



**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

- B. Pregn-4, 6-dien-3, 20-dione
- C. Pregn-2, 6-diene-3, 20-dione
- D. Pregn-4-ene-3, 20-dione

62. Which of the following is an example for natural emulsifying agent of animal origin?

- A. Agar
- B. Acacia
- C. Chondrus
- D. Gelatine

63. Which of the following alkaloidal drug is having pseudo parenchyma?

- A. Nuxvomica
- B. Cardamom
- C. Digitalis
- D. Ergot

64. Basophiles are having receptors for which of the following antibodies?

- A. Ig G
- B. Ig A
- C. Ig M
- D. Ig E

65. Which of the following is an example for Thermal Conductivity Detector?

- A. Flame Thermocouple Detector
- B. Flame Thermionic Detector

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

C. Katharometer

D. Flame Ionization Detector

66. Which of the following metabolites usually undergo enterohepatic circulation?

A. Glucuronate conjugates

B. Phenols

C. Acetyl conjugate

D. Methyl conjugate

67. Which of the following semipermeable membrane used in haemodialysis?

A. Cellophane

B. Cellulose acetate

C. Polyethene D. Polyvinyl acetate

68. Which part of the umbelliferous fruits is having high content of volatile oils?

A. Mesocarp

B. Pericarp

C. Schizocarp

D. Epicarp

69. Which of the following Glutamate antagonist used in Alzheimer's disease?

A. Felbamate

B. Sulthiame

C. Memantine

D. Phenytoin

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

70. Mass spectra is usually obtained by

- A. Electron impact
- B. Electron captures
- C. Atomic fission
- D. Accelerated potentials

71. Which of the following is the active metabolite of Phenacitin?

- A. p - Amino phenol
- B. p - Ethoxy aniline
- C. p - Hydroxy phenyl acetanilide
- D. Acetanilide

72. Which of the following toxins are produced by E.coli?

- A. Enterotoxin
- B. Endotoxins
- C. Verocytotoxins
- D. Haemolysins

73. Which of the following are identified by using Borax test?

- A. Saponins
- B. Barbaloins
- C. Digitoxin
- D. Gelatine

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

74. Iron content of gelatine used for the preparation of soft capsule should not be more than

- A. 15 ppm
- B. 20 ppm
- C. 25 ppm
- D. 30 ppm

75. Which of the following antihypertensive drugs acts as MAO inhibitor?

- A. Tranylcypromone
- B. Reserpine
- C. Prazocine
- D. Pargyline

76. Pantothenic acid is a constituent of the coenzyme involved in

- A. Decarboxylation
- B. Dehydrogenation
- C. Acetylation
- D. Oxidation

77. What is the metabolic advantage of Procainamide compared to Procaine?

- A. It does not undergo hydrolysis by amidase
- B. It does not undergo hydrolysis by esterase
- C. It does not undergo N - Dealkylation
- D. None of the above

78. Which of the following technique single step purification of sample is achieved?

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

- A. Ion exchange chromatography
- B. Affinity chromatography
- C. Gel filtration
- D. All the above

79. Which of the following is readily used for the filling of pelletized or granular material into Capsules?

- A. Rotosort
- B. Rotofil
- C. Accofil
- D. Rotoweigh

80. Where biological and microbiological tests are conducted?

- A. Bombay
- B. Calcutta
- C. Madras
- D. Kasauli

81. Which among the following is Gyrase inhibitor?

- A. Cephalexin
- B. Vancomycin
- C. Norfloxacin
- D. Linezolid

82. Calculate the amount of 95 % alcohol required to prepare 400 ml of 45 % alcohol?

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

- A. 190 ml
- B. 844 ml
- C. 240 ml
- D. 120 ml

83. Which of the following medium is used for differentiation of lactose and non - lactose fermentors?

- A. Mac Conkey's medium
- B. Stuart medium
- C. Sugar medium
- D. Citrate medium

84. Which of the following odour is developed when ergot powder is treated with sodium hydroxide?

- A. Acetophenone
- B. Methyl benzoate
- C. Ammonia
- D. Triethyl amine

85. Betamethazone and Dextromethazone are

- A. Epimers
- B. Diastereomers
- C. Optical isomers
- D. Both A and C

86. LAL (Limulus Amebocyte Lysate) is

- A. An in vitro test for detecting pyrogenic endotoxins

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

- B. An in vivo test for detecting pyrogenic endotoxins
- C. An in vitro test for detecting pyrogenic exotoxins
- D. An in vivo test for detecting pyrogenic exotoxins

87. Which of the following allied drugs of Senega does not contain Saponins?

- A. Polygala alba
- B. Glinus oppositifolia
- C. Polygala chinesis
- D. All the above

88. How many signals are produced by  $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CO-CH}_2\text{-CH}_3$  in NMR spectroscopy?

- A. 5
- B. 4
- C. 3
- D. 2

89. Which of the following hormone is used for confirmation of pregnancy?

- A. HCG
- B. LH
- C. FSH
- D. Oestrogen

90. In Elisa technique, the antibodies are labelled by

- A. Acredine
- B. Alkaline phosphate

**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

- C. Neutral red
- D. Bromothymol blue

91. Which of the following is also known as 11 - Desmethoxy Reserpine?

- A. Yohimbine
- B. Deserpidine
- C. Syrosingopine
- D. Ajmaline

92. Which of the following drug is not bound to Warfarin binding sites?

- A. Phenyl butazone
- B. Sulfamethizole
- C. Bilirubin
- D. Ketoprofen

93. Is the entomer of Succinyl choline, which is

- A. Syn isomer
- B. Anti isomer
- C. Synperiplanar isomer
- D. Anteperiplanar isomer

94. What is the drug of choice in Chloramphenicol resistant typhoid?

- A. Streptomycin
- B. Ampicillin
- C. Erythromycin



**MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)**

D. Fluoroquinolones

95. Which of the following drug is designed as prodrug for improved taste?

A. Oleandrine acetate

B. Clindamycin palmitate ester

C. Tetralysine

D. Salsalate

96. SAR studies on  $\nu$  - antagonists is mainly aimed at

A. Selectivity

B. Potency

C. Stability

D. Increased duration of action

97. Which of the following drug inhibits the Prolactin level?

A. Somatostatin

B. Dopamine

C. Glucocorticoids

D. None of the above

98. Which of the following is obtained by fusion of Morphine with potassium hydroxide?

A. Veratric acid

B. Valerianic acid

C. Proto Catechuic acid

D. Homoveratrole

## MULTIPLE CHOICE QUESTIONS (TEST PAPER 1)

99. A solution of drug was prepared freshly at a concentration of 300 mg/ml. After 25 days of storage at 25 OC, the drug concentration in the solution was found to be 120 mg/ml. The drug assumed to undergo zero-order kinetics. Calculate the reaction rate constant?

- A. 7.2 mg/ml/day
- B. 62.5 mg/ml/day
- C. 0.72 mg/ml/day
- D. 6.25 mg/ml/day

100. The correct equivalent for -10oC is

- A. -10oF
- B. +22 oF
- C. -18 oC
- D. +14 oF

1 - C, 2 - C, 3 - A, 4 - A, 5 - D, 6 - C, 7 - A, 8 - A, 9 - B, 10 - D, 11 - A, 12 - B, 13 - D, 14 - B, 15 - A, 16 - B, 17 - B, 18 - A, 19 - C, 20 - C, 21 - B, 22 - A, 23 - B, 24 - D, 25 - D, 26 - A, 27 - A, 28 - A, 29 - A, 30 - C, 31 - B, 32 - A, 33 - C, 34 - A, 35 - D, 36 - A, 37 - B, 38 - B, 39 - D, 40 - C, 41 - A, 42 - D, 43 - A, 44 - C, 45 - D, 46 - B, 47 - A, 48 - A, 49 - B, 50 - A, 51 - A, 52 - A, 53 - A, 54 - D, 55 - C, 56 - A, 57 - C, 58 - B, 59 - B, 60 - A, 61 - D, 62 - D, 63 - D, 64 - D, 65 - C, 66 - A, 67 - A, 68 - A, 69 - A, 70 - A, 71 - C, 72 - B, 73 - B, 74 - A, 75 - A, 76 - C, 77 - B, 78 - C, 79 - B, 80 - D, 81 - C, 82 - A, 83 - A, 84 - D, 85 - D, 86 - A, 87 - C, 88 - D, 89 - A, 90 - B, 91 - B, 92 - D, 93 - B, 94 - D, 95 - B, 96 - A, 97 - B, 98 - C, 99 - A, 100 - D