

MADHYA PRADESH DRUG INSPECTOR Solved Paper 2012

Correct answer is indicated as {c}

1. Which of the following is a Class IA anti arrhythmic drug:

- Sotalol
- {c}Disopyramide
- Verapamil
- Propranolol

2. Which of the following is a Class II A anti arrhythmic drug:

- Verapamil
- Flecainide
- {c}Propranolol
- Lidocaine

3. Main mechanisms of action of cardiac glycoside is:

- {c}To increase vagal activity and inhibition of the Na^+ / K^+
- To decrease vagal activity and inhibition of the Na^+ / K^+
- To increase vagal activity and potentiates the activity of the Na^+ / K^+
- None of the above

4. Increased level of lipoprotein (a) predisposes to

- Liver cirrhosis
- {c}Atherosclerosis
- Nephritic syndrome
- Pancreatitis

5. Which of the following antianginal agents is a calcium channel blocker?

- Nitroglycerin
- Dipyridamole
- {c}Nifedipine
- Minoxidil

6. Which of the following drug reduces blood pressure by acting on vasomotor centers in the CNS:

- Labetalol
- Nifedipine
- {c}Clonidine
- Enalapril

7. Which of the following hormones is produced by the hypothalamic gland?

- Estradiol
- {c}Growth hormone-releasing hormone (GHRH)
- Glucagon
- Aldosterone

8. Currently used second-generation sulfonylureas include the following, EXCEPT:

- Glibenclamide
- Glipizide
- {c}Tolbutamide
- Glimepiride

9. Which of the following agent increases the absorption of iron from intestine?

- Cyanocobalamin
- Erythropoetin
- Folic acid
- {c}Ascorbic acid

10. Which of the following substances is synthesized in the intima of blood vessels is a strong inhibitor of platelet aggregation?

- Thromboxane A2 (TXA2)
- {c}Prostacyclin (PGI2)
- Prostaglandin (PGE)
- All of the above

11. Thiazolidinediones act by:

- Stimulating the beta islet cells of pancreas to produce insulin
- {c}Reverse insulin resistance by stimulating GLUT4 expression and translocation
- Reducing the absorption of carbohydrate from the gut
- All of the above

12. Glucagon is

- {c}A single chain polypeptide containing 29 amino acid and molecular weight of 3500
- A glycoprotein with a molecular weight of 600
- A oligosaccharide
- A small protein with a molecular weight of 5808 having disulphide linkage

13. The drug has a steroid - like structure which is responsible for its anti androgenic effect:

- Amiloride
- Furosemide
- Hydrochlorothiazide
- {c}Spironolactone

14. Oxytocin produces the following effect:

- It causes contraction of the uterus

- b. It brings milk ejection from the lactating mammary gland
 c. It causes relaxation of the uterus
 d. {c}Both A and B

15. Following drugs are Fluoroquinolones except

- a. Norfloxacin
 b. Ciprofloxacin
 c. Ofloxacin
 d. {c}Nalidixic acid

16. The major natural estrogens produced by women are following EXCEPT:

- a. 17β -Oestradiol
 b. Oestradiol
 c. {c}Ethinyl Oestradiol
 d. Oestriol

17. Mifepristone (RU-486) is:

- a. {c}Ant progestin
 b. Antiadrogen
 c. Ant estrogen
 d. Androgen

18. Streptokinase is chosen as part of the therapeutic regimen. Which of the following is its mechanism of action?

- a. It inhibits the conversion of fibrin to fibrin
 b. It activates the conversion of fibrin-split products
 c. {c}It activates the conversion of plasminogen to plasmin
 d. It inhibits the conversion prothrombin to thrombin

19. Which of the following drug is inhibitor of thyroxin synthesis:

- a. Propylthiouracil
 b. Methylouracil
 c. Methimazole
 d. {c}All of the above

20. Combined oral contraceptives usually consists of an Oestrogen and

- a. A selective estrogen-receptor modulator
 b. {c}A progestogen
 c. An ant progestin
 d. An androgen

21. Medical termination of pregnancy act was passed in

- a. {c}1971
 b. 1969
 c. 1977
 d. 1980

22. is not mentioned in Dangerous Drugs act 1930.

- a. Coca leaf
 b. Hemp
 c. {c}Ergot
 d. Opium

23. Application form no. is required for sale of drugs listed in schedule C and C1.

- a. 20
 b. 21-A
 c. {c}20-B
 d. 22

24. D.P.C.O is abbreviation for

- a. {c}Drug price control order
 b. Drug price cut order
 c. Drug purchase control order
 d. Drug purchase cut order

25. Digoxine is placed in Schedule

- a. E
 b. X
 c. G
 d. {c}H

26. One of the following drug is not in schedule H

- a. Nalidixic acid
 b. Naproxen
 c. Nebivolol
 d. {c}Phenometrazine

27. The guidelines to undertake clinical trial are stated in

- a. Schedule M1
 b. Schedule N
 c. Schedule R
 d. {c}Schedule Y

28. The life period of Drug is mentioned in

- a. Schedule Q
 b. {c}Schedule P
 c. Schedule R
 d. Schedule V

29. The provisions for production of Bacterial vaccine are mentioned in

-
 a. Schedule F-part IV
 b. {c}Schedule F(I) –part I
 c. Schedule F-part III
 d. Schedule F-part IX

30. The term D.T.A.B. is short form for

- a. {c}Drug technical advisory board
 b. Drug treatment analytical bureau
 c. Drug tolerance addiction bureau
 d. Drug technical Advisory bureau

31. Which one of the following drugs is placed under schedule X

- a. Ciprofloxacin
 b. {c}Dexamphetamine

- c. Paracetamol
- d. Tolbutamide

32. The prescription in duplicate is required for the falling in

- a. Schedule H
- b. {c} Schedule X
- c. Schedule G
- d. Schedule C-1

33. Pharmacy Act came in to force in the

- a. 1950
- b. {c} 1948
- c. 1952
- d. 1949

34. The appointment of drugs inspector is as per the section of drugs and cosmetics act 1940.

- a. 19
- b. 42
- c. {c} 21
- d. 30

35. The list of Ayurvedic and Unani poisonous drugs are mentioned in schedule.....

- a. C-1
- b. G
- c. {c} E-1
- d. E

36. The designation of in charge of state drug laboratory is

- a. Drugs controller
- b. Assistant drugs controller
- c. {c} Government analyst
- d. Drugs inspector

37. Wholly or partly substituted drug preparations by another substance or product is known as

- a. Spurious drugs
- b. {c} Adulterated drugs
- c. Poisonous drugs
- d. Misbranded drugs

38. First pharmacy council of India was constituted in following year

- a. {c} 1949
- b. 1948
- c. 1960
- d. 1953

39. The tenure of nominated members on the central pharmacy council is for

- a. Three years
- b. Six years
- c. {c} Five years
- d. Two years

40. 'Registered Pharmacist' means

- a. A person passed Diploma in Pharmacy
- b. A person who is working as Compounder
- c. {c} A person whose name is Registered in state register
- d. A person who is a member of Central pharmacy council

41. Two electrons occupying the same orbital have different

- a. Principal Quantum Number
- b. Azimuthal Quantum Number
- c. Magnetic Quantum Number
- d. {c} Spin Quantum Number

42. Silicon and Germanium in the pure state are

- a. {c} Non-Conductors
- b. Good conductors
- c. Metallic conductors
- d. Metal Complexes

43. The water free from all ions is referred to as

- a. Heavy water
- b. Concentrated water
- c. Mineral water
- d. {c} Dematerialized water

44. The resultant colour for the limit test for lead is

- a. Red
- b. Green
- c. {c} Violet
- d. Orange

45. The Aluminium Hydroxide comes under the category of

- a. Cathartic
- b. {c} Antacid
- c. Adsorbant
- d. Astringent

46. Phenobarbitone is used in

- a. {c} Grandmal and Psychomotor Epilepsy
- b. Petitmal Epilepsy
- c. Parkinson's Disease
- d. Analeptic

47. Selective α_1 Receptor Antagonist is

- a. Pronethalol
 - b. {c} Prazocin
 - c. Propranolol
 - d. Practolol
48. Reversible cholinergic inhibitor is
- a. Isoflurophate
 - b. Paraoxon
 - c. {c} Physostigmine
 - d. Tetraethyl Pyrophosphate

49. Maximum Diuretic Activity of meta disulfamoyl benzene is shown when the R group is

- Cl⁻, Br⁻
- H⁺, Na⁺
- Both
- None

50. Plasma protein binding of Hydrochlorothiazide is

- 80-90%
- 90-95%
- 60-70%
- 70-75%

51. When morphine is heated at 140°C under pressure with strong Hydrochloric acid it converts into

- Morphinone
- {c} Apomorphine
- Codeine
- Oxymorphine

52. Choose the IUPAC name of Carbamazepine

- 5-[3(dim ethyl amino) ethyl] 10-11 dihydro – 5 H dibenz (b, f) azepine
- {c} 5 H dibenz (b, f) azepine -5- carboxamide
- 5 H dibenz (b, f) azepine -5- acid chloride
- 5[3- dim ethyl amino propyl] 10-11 dihydro – 5H dibenz (b,f) azepine

53. Which one of the following is not a pharmacological effect of Morphine?

- Constriction of pupil
- CNS Depression
- {c} Diarrhoea
- Respiratory Depression

54. The gondal hormones like estrogens, androgens and progestins bind with.

- {c} Receptors located in the cytoplasm
- Receptors located in the nucleus of the cell
- Receptors located in the contractile vacuoles
- None of the above

55. How many optical isomers are possible for lactic acid

- {c} 2
- 4
- 6
- 8

56. Which of the following classes of compounds are unreactive towards Sulphuric acid

- {c} Alkanes
- Alcohols
- Alkenes
- Alkynes

57. Which of the following compounds have planer molecules

- {c} 1,3-Butadiene
- Dimethyl Ether
- 1-Butene
- Allene

58. Which of the bonds in ethyl alcohol (CH₃ CH₂ OH) will most readily undergo heterolytic bond

- {c} O – H
- C – H
- C – O
- C – C

59. The reaction of Ethanol with one equivalent of methanol and a trace of an acid will give.

- Acetal
- {c} Hemiacetal
- Ketal
- Hemiketal

60. Solubility of unionized drug increases with

- Always with increase in temperature
- Always with increase in pressure
- {c} Majority of time with increase in temp
- Always with increase in pH

61. Drugs having pKa between 2.5 to 6.0 remain

- Ionized in gastric pH and unionized in intestinal pH
- Unionized in gastric pH
- Ionized at all pH values
- {c} Practically unionized at all pH value

62. Surface tension is measured by

- {c} Capillary rise method
- Cone and plate method
- Anderson pipette method
- All of the above

63. Following is associated with colloidal dispersion stability

- {c} Schulze-Hardy rule
- Hildebrand constant
- Huckel's rule
- None of the above

64. Which of the following statement is true

- Surface tension is sudden expansion of the surface
- {c} Surface tension increases with increases in the downward pull of molecules in the water
- Surface tension is equal to maximum, free energy
- Surface tension has units of N

65. Which of the following are not kinetic properties?

- Brownian Motion
- Osmotic Pressure
- {c} Ionization
- Both a and b

66. Which of the following statement is true

- {c} Hausner ratio of < 1.25 indicates a powder that is free flowing where > 1.25 indicates poor flow ability
- Hausner ratio of > 1.25 indicates a powder that is free flowing where < 1.25 indicates poor flow ability
- The larger the Carr's index the better the flow properties
- Angle of repose $> 40^\circ$ indicates a powder that is free flowing

67. True density is

- Mass/volume excluding inter particulate or intra particulate spaces
- Mass/volume excluding inter particulate spaces
- {c} Mass/volume excluding inter particulate and intra particulate spaces
- None of the above

68. The critical micelle concentration influences

- Conductivity
- Viscosity
- Surface tension
- {c} All of the above

69. Nonlinear drug distribution in body is due to

- Drug following one compartment model
 - Drug distribution only in central compartment
 - {c} Drug distribution in central and peripheral compartments
70. Non-Newtonian shows which behaviour
- Linear
 - {c} Non-linear
 - Both linear and non-linear
 - None of the above
71. Which one of the following is used as suppository base
- Cocoa butter
 - Polyethylene glycol
 - Adepes solids
 - {c} All of the above

72. Which one is not the purpose of Enteric coating is

- {c} To increase bioavailability of drug
- To prevent drug degradation in stomach
- To prevent gastric irritation caused by drug
- For local action of the drug in intestine

73. Oral absorption is ideal when

- Log $P > 5$
- {c} Log $P < 5$
- There are more than 5 hydrogen bond donors
- Molecular weight > 500 Dalton

74. Disintegration test for tablets is not done in cases?

- Effervescent tablets
- Sugar coated tablets
- Film coated tablets
- {c} Controlled release tablets

75. Which one of the following is USP-IV dissolution apparatus?

- Paddle Apparatus
- Paddle Over Disc
- {c} Flow-Through Cell
- Reciprocating Cylinder

76. A drug having plasma half-life of 24 hrs and follows one compartment model is formulated as a 25 Mg tablet. What will be % of drug will remain in plasma on 4th day?

- {c} 12.5
- 25
- 50
- 6.25

77. Ratio of systemic availability of a drug administered orally and I.V. is called

- {c} Absolute bioavailability
- Relative bioavailability
- Dynamic bioavailability
- None

78. Following device can be used for in line and off-line to weight and sort a complete batch of capsules

- Varicap
- Rotofull
- {c} Rotosort
- All of the above

79. Total organic carbon limit for water for injection is

- {c} < 500 ppb
- < 5000 ppb
- < 50 ppb
- < 1000 ppb

80. Andrographolides are found in

-
- Cinchona
 - Datura
 - {c} Kalmegh
 - Gentian

81. Cinnamon oil contains Cinnamaldehyde and Eugenol in following ratios.

- a. 60 – 70% and 05 – 07%
- b. 60 – 70% and 25 – 25%
- c. {c}60 – 70% and 05 – 10%
- d. 60 – 70% and 01 – 04%

82. The commercial source of Rauwolfia root for preparation of Reserbine is

- a. {c} Rauwolfia vomitoria
- b. Rauwolfia tetraphyla
- c. Rauwolfia obscura
- d. Rauwolfia serpentine

83. The amino acid employed as precursor for quinine a quinoline alkaloid is

- a. Tyrosine
- b. {c}Tryptophan
- c. Serine
- d. Lysine

84. The biological source for physostigmine from physostigman venonesum is.....

- a. {c} Dried seeds
- b. Dried leaves
- c. Fresh bark
- d. Fresh flowers

85. The content of clay in Loamy soil is.....

- a. 05 -07%
- b. {c}30 – 50%
- c. 20 - 40%
- d. 10 – 25%

86. The chemical constitution of Kaolin is

- a. {c} Hydrated Aluminium Silicate
- b. Hydrated Ferrous Aluminium Silicate
- c. Hydrate Magnesium trisilicate
- d. Hydrated Aluminium Calcium Silicate

87. Irregular celled stomata are present in the leaves of

- a. {c} Buchu
- b. Spearmint
- c. Belladonna
- d. Senna

88. The constituents of Stereo glycol Alkaloid type are present in

- a. Aerial part of Polygala Senega
- b. Inner bark of Quillaia saponaria
- c. Ripened fruits of Tribulus terrestris
- d. {c} Aerial part of Solanum khasianum

89. The main constituent of Cascare grade are of type glycosides.

- a. Steroidal
- b. {c}Anthraquinone
- c. Napthoquinone
- d. Cyanophoric

90. In mixing process the critical step is

- a. Time of mixing
- b. Speed of stirrers
- c. Load of materials
- d. {c} All of the above

91. Precision refers to

- a. Degree of responsibility
- b. {c}Degree of reproducibility
- c. Degree if repeatability
- d. None of the above

92. As per ICH guidelines for establishment of linearity minimum number of concentration required is

- a. 10
- b. 04
- c. {c}05
- d. 03

93. Guideline on general principles of process validation was made available and the same was finished in

- a. May 1987
- b. May 1967
- c. May 1986
- d. May 1988

94. The training of operations involves

- a. Knowledge
- b. Skills
- c. Attitude
- d. {c} All of the above

95. The quality one for pharmaceutical industry in general are about

- a. {c}10 – 15%
- b. 30 – 40%
- c. 25 – 45%
- d. 60 – 70%

96. Appraisal costs are the cost of

- a. Inspection
- b. Testing
- c. Quality
- d. {c}All of the above

97. In classification of water, level II water is

- a. Well water
- b. {c}Drinking water
- c. Purified water
- d. Water to parenterals

98. The drug regulatory authority CDSCO denotes

- a. {c}Central drugs standards control organization
- b. Central drugs standards council organization
- c. Central for drug standards and cosmetic organization
- d. None of the above

99. Robustness in validation refers to

- a. {c}Analysis with respect to deliberate variation in method parameters
- b. Repeated analysis on fixed parameters
- c. Instrument to instrument variation
- d. Measurement of personal errors

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