#### MADHYA PRADESH DRUG INSPECTOR

#### 2012

- Which of the following is a Class IA ant arrhythmic drug:
- a. Sotalol
- b. {c}Disopyramide
- c. Verapamil
- d. Propranolol
- 2. Which of the following is a Class II A anti arrhythmic drug:
- a. Verapamil
- b. Flecainide
- c. {c}Propranolol
- d. Lidocaine
- Main mechanisms of action of cardiac glycoside is:
- a.  $\{c\}$ To increase vagal activity and inhibition of the  $Na^+/K^+$
- b. To decrease vagal activity and inhibition of the  $Na^+/K^+$
- c. To increase vagal activity and potentiates the activity of the Na<sup>+</sup> / K<sup>+</sup>
- d. None of the above
- 4. Increased level of lipoprotein (a) predisposes to
- a. Liver cirrhosis
- b. {c} Atherosclerosis
- c. Nephritic syndrome
- d. Pancreatitis
- 5. Which of the following antianginal agents is a calcium channel blocker?
- a. Nitroglycerin
- b. Dipyridamole
- c. {c}Nifedipine

- d. Minoxidil
- 6. Which of the following drug reduces blood pressureby acting on vasomotor centers in the CNS:
- a. Labetalol
- b. Nifedipine
- c. {c}Clonidine
- d. Enalapril
- 7. Which of the following hormones is produced by the hypothalamic gland?
- a. Estradiol
- b. {c}Growth hormone-releasing hormone(GHRH)
- c. Glucagon
- d. Aldosterone
- Currently used second-generation sulfonylureas include the following, EXCEPT:
- a. Glibenclamide
- b. Glipizide
- c. {c}Tolbutamide
- d. Glimepiride
- 9. Which of the following agent increases the absorption of iron from intestine?
- a. Cyanocbalamin
- b. Erythropoetin
- c. Folic acid
- d. {c}Ascorbic acid
- 10. Which of the following substances is synthesized in the intima of blood vessels is a strong inhibitor of platelet aggregation?
- a. Thromboxane A2 (TXA2)
- b. {c}Prostacyclin (PGI2)
- c. Prostaglandin (PGE)
- d. All of the above

- 11. Thiazolidinediones act by:
- Stimulating the beta is let cells of pancreas to produce insulin
- b. {c}Reverse insulin resistance by stimulating
  GLUT4 expression and translocation
- Reducing the absorption of carbohydrate from the gut
- d. All of the above
- 12. Glucagon is
- a. {c}A single chain polypeptide containing 29
  amino acid and molecular weight of 3500
- b. A glycoprotein with a molecular of 600
- c. A oligosaccharide
- d. 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:
- a. Amiloride
- b. Furosemide
- c. Hydrochlorothiazide
- d. {c}Spironolactone
- 14. Oxytocin produces the following effect:
- a. 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. Oflxacin
- d. {c}Nalidixic acid
- 16. The major natural estrogens produced by women are following EXCEPT:

- a.  $17\beta$ -Oestradiol
- b. Oestradiol
- c. {c}Ethinyl Oestradiol
- d. Oestriol
- 17. Mifeprostone (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}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. Methyliouracil
- 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
- Medical termination of pregnancy act was passed in
- a. {c}1971

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b.	1969	c.	Schedule R
c.	1977	d.	{c}Schedule Y
d.	1980	28.	The life period of Drug is mentioned in
22.	is not mentioned in	a.	Schedule Q
	Dangerous Drugs act 1930.	b.	{c}Schedule P
a.	Coca leaf	c.	Schedule R
b.	Hemp	d.	Schedule V
c.	{c}Ergot	29.	The provisions for production of Bacterial
d.	Opium		vaccine are mentioned in
23.	Application form no is required	a.	Schedule F-part IV
	for sale of drugs listed in schedule C and C1.	b.	{c}Scheule F(I) –part I
a.	20	c.	Schedule F-part III
b.	21-A	d.	Schedule F-part IX
c.	{c}20-B	30.	The term D.T.A.B. is short form for
d.	22		
24.	D.P.C.O is abbreviation for	a.	{c}Drug technical advisory board
a.	{c}Drug price control order	b.	Drug treatment analytical bureau
b.	Drug price cut order	c.	Drug tolerance addiction bureau
c.	Drug purchase control order	d.	Drug technical Advisory bureau
d.	Drug purchase cut order	31.	Which one of the following drugs is placed
25.	Digoxine is placed in Schedule		under schedule X
a.	E	a.	Ciprofloxacin
b.	X	b.	{c}Dexamphetamine
c.	G	c.	Paracetamol
d.	{c}H	d.	Tolbutamide
26.	One of the following drug is not in schedule H	32.	The prescription in duplicate is required for the
a.	Nalidixic acid		falling in
b.	Naproxen	a.	Schedule H
c.	Nebivolol	b.	{c}Schedule X
d.	{c}Phenometrazine	c.	Schedule G
27.	The guidelines to undertake clinical trial are	d.	Schedule C-1
	stated in	33.	Pharmacy Act came in to force in the
a.	Schedule M1	a.	1950
b.	Schedule N	b.	{c}1948

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c.	1952	39.	The tenure of nominated members on the
d.	1949		central pharmacy council is for
34.	The appointment of drugs inspector is as per	a.	Three years
	the section of drugs and	b.	Six years
	cosmetics act 1940.	c.	{c} Five years
a.	19	d.	Two years
b.	42	40.	'Registered Pharmacist' means
c.	{c} 21	a.	A person passed Diploma in Pharmacy
d.	30	b.	A person who is working as Compounder
35.	The list of Ayurvedic and Unani poisonous	c.	{c} A person whose name is Registered in
	drugs are mentioned in schedule		state register
a.	C-1	d.	A person who is a member of Central
b.	G		pharmacy council
c.	{c} E-1	41.	Two electrons occupying the same orbital have
d.	E		different
36.	The designation of in charge of state drug	a.	Principal Quantum Number
	laboratory is	b.	Azimuthal Quantum Number
a.	Drugs controller	c.	Magnetic Quantum Number
b.	Assistant drugs controller	d.	{c} Spin Quantum Number
c.	{c} Government analyst	42.	Silicon and Germanium in the pure state are
d.	Drugs inspector	a.	{c} Non-Conductors
37.	Wholly or partly substituted drug preparations	b.	Good conductors
	by another substance or product is known as	c.	Metallic conductors
		d.	Metal Complexes
a.	Spurious drugs	43.	The water free from all ions is referred to as
b.	{c} Adulterated drugs	a.	Heavy water
c.	Poisonous drugs	b.	Concentrated water
d.	Misbranded drugs	c.	Mineral water
38.	First pharmacy council of India was	d.	{c} Dematerialized water
	constituted in following year	44.	The resultant colour for the limit test for lead is
a.	{c} 1949	a.	Red
b.	1948	b.	Green
c.	1960	c.	{c} Violet
d.	1953	d.	Orange

- 45. The Aluminium Hydroxide comes under the category of
- a. Cathartic
- b. {c} Antacid
- c. Adsobant
- d. Astringent
- 46. Phenobarbitone is used in
- a. {c} Grandmal and Psychomotor Epilepsy
- b. Petitmal Epilepsy
- c. Parkinson's Disease
- d. Analeptic
- 47. Selective  $\alpha_1$  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
- a. Cl<sup>-</sup>, Br<sup>-</sup>
- b. H<sup>+</sup>, Na
- c. Both
- d. None
- 50. Plasma protein binding of Hydrochlorothiazide
  - is
- a. 80-90%
- b. 90-95%
- c. 60-70%
- d. 70-75%

- 51. When morphine is heated at 140°C under pressure with strong Hydrochloric acid it converts into
- a. Morphinone
- b. {c}Apomorphine
- c. Codeine
- d. Oxymorphine
- 52. Choose the IUPAC name of Carbamazepine
- a. 5-[-3(dim ethyl amino) ethyl] 10-11 dihydro –5 H dibenz (b, f) azepine
- b. {c}5 H dibenz (b, f) azepine -5- carboxamide
- c. 5 H dibenz (b, f) azepine -5- acid chloride
- d. 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?
- a. Constriction of pupil
- b. CNS Depression
- c. {c} Diarrhoea
- d. Respiratory Depression
- 54. The gondal harmones like estrogens, androgens and progestins bind with.
- a. {c} Receptors located in the cytoplasm
- b. Receptors located in the nucleus of the cell
- c. Receptors located in the contractile vacuoles
- d. None of the above
- 55. How many optical isomers are possible for lactic acid
- a.  $\{c\}2$
- b. 4
- c. 6
- d. 8
- 56. Which of the following classes of compounds are uncreative towards Sulphuric acid

- a. {c} Alkanes
- b. Alcohols
- c. Alkenes
- d. Alkynes
- 57. Which of the following compounds have planer molecules
- a. {c} 1,3-Butadiene
- b. Dimethyl Ether
- c. 1-Butene
- d. Allene
- 58. Which of the bonds in ethyl alcohol (CH<sub>3</sub> CH<sub>2</sub>OH) will most readily undergo heterolytic bond
- a.  $\{c\}O H$
- b. C-H
- c. C O
- d. C-C
- 59. The reaction of Ethanol with one equivalent of methanol and a trace of an acid will give.
- a. Acetal
- b. {c} Hemiacetal
- c. Ketal
- d. Hemiketal
- 60. Solubility of unionized drug increases with
- a. Always with increase in temperature
- b. Always with increase in pressure
- c. {c} Majority of time with increase in temp
- d. Always with increase in pH
- 61. Drugs having pKa between 2.5 to 6.0 remain
- a. Ionized in gastric pH and unionized in intestinal pH
- b. Unionized in gastric pH
- c. Ionized at all pH values
- d. {c} Practically unionized at all pH value

- 62. Surface tension is measured by
- a. {c} Capillary rise method
- b. Cone and plate method
- c. Anderson pipette method
- d. All of the above
- 63. Following is associated with colloidal dispersion stability
- a. {c} Schulze-Hardy rule
- b. Hildebrand constant
- c. Huckel's rule
- d. None of the above
- 64. Which of the following statement is true
- a. Surface tension is sudden expansion of the surface
- b. (c) Surface tension increases with increases in the downward pull of molecules in the water
- Surface tension is equal to maximum, free energy
- d. Surface tension has units of N
- 65. Which of the following are not kinetic properties?
- a. Brownian Motion
- b. Osmotic Pressure
- c. {c} Ionization
- d. Both a and b
- 66. Which of the following statement is true
- a. {c} Haunser ratio of < 1.25 indicates a powder that is free flowing where > 1.25 indicates poor flow ability
- Haunser ratio of >1.25 indicates a powder that is free flowing where < 1.25 indicates poor flow ability
- c. The larger the Carr's index the better the flow properties

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- d. Angle of repose > 40° indicates a powder that is free flowing
- 67. True density is
- a. Mass/volume excluding inter particulate or intra particulate spaces
- b. Mass/volume excluding inter particulate spaces
- c. {c} Mass/volume excluding inter particulate and intra particulate spaces
- d. None of the above
- 68. The critical micelle concentration influences
- a. Conductivity
- b. Viscosity
- c. Surface tension
- d. {c}All of the above
- 69. Nonlinear drug distribution in body is due to
- a. Drug following one compartment model
- b. Drug distribution only in central compartment
- c. {c} Drug distribution in central and peripheral compartments
- 70. Non-Newtonian shows which behavious
- a. Linear
- b. {c}Non-linear
- c. Both linear and non-linear
- d. None of the above
- 71. Which one of the following is used as suppository base
- a. Coca butter
- b. Polyethylene glycol
- c. Adepes solids
- d. {c} All of the above
- 72. Which one is not the purpose of Enteric coating is
- a. {c}To increases bioavailability of drug
- b. To prevent drug degradation in stomach

- c. To prevent gastric irritation caused by drug
- d. For local action of the drug in intestine
- 73. Oral absorption is ideal when
- a. Log P>5
- b. {c} Log P<5
- c. There are more than 5 hydrogen bond donors
- d. Molecular weight > 500 Dalton
- 74. Disintegration test for tablets is not done in cases?
- a. Effervescent tablets
- b. Sugar coated tablets
- c. Film coated tablets
- d. {c}Controlled release tablets
- 75. Which one of the following is USP-IV dissolution apparatus?
- a. Paddle Apparatus
- b. Paddle Over Disc
- c. {c} Flow-Through Cell
- d. 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 4<sup>th</sup> day?
- a. {c} 12.5
- b. 25
- c. 50
- d. 6.25
- 77. Ratio of systemic availability of a drug administered orally and I.V. is called
- a. {c} Absolute bioavailability
- b. Relative bioavailability
- c. Dynamic bioavailability
- d. None

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78.	Following device can be used for in line and	c.	Serine
	off-line to weight and sort a complete batch of	d.	Lysine
	capsules	84.	The biological source for physostigmine from
a.	Varicap		physostigman venonesum is
b.	Rotofull	a.	{c} Dried seeds
c.	{c}Rotosort	b.	Dried leaves
d.	All of the above	c.	Fresh bark
79.	Total organic carbon limit for water for	d.	Fresh flowers
	injection is	85.	The content of clay in Loamy soil is
a.	{c}<500ppb	a.	05 -07%
b.	<5000ppb	b.	{c}30 - 50%
c.	<50ppb	c.	20 - 40%
d.	<1000ppb	d.	10 – 25%
80.	Andrographolides are found in	86.	The chemical constitution of Kaolin is
a.	Cinchona		
b.	Datura	a.	(c) Hydrated Aluminium Silicate
c.	{c}Kalmegh	b.	Hydrated Ferrous Aluminium Silicate
d.	Gentian	c.	Hydrate Magnesium trisilicate
81.	Cinnamon oil contains Cinnamaldehyde and	d.	Hydrated Aluminium Calcium Silicate
	Eugenol in following ratios.	87.	Irregular celled stomata are present in the
a.	60 – 70% and 05 – 07%		leaves of
b.	60 – 70% and 25 – 25%	a.	{c} Buchu
c.	$\{c\}60 - 70\%$ and $05 - 10\%$	b.	Spearmint
d.	60 – 70% and 01 – 04%	c.	Belladonna
82.	The commercial source of Rauwolfia root for	d.	Senna
	preparation of Reserbine is	88.	The constituents of Stereo glycol Alkaloid type
a.	(c) Rauwolfia vomitoria		are present in
b.	Rauwolfia tetraphyla	a.	Aerial part of Polygala Senega
c.	Rauwolfia obscura	b.	Inner bark of Quillaia saponaria
d.	Rauwolfia serpentine	c.	Ripened fruits of Tribules terestris
83.	The amino acid employed as precursor for	d.	{c} Aerial part of Solanum khasianum
	quinine a quinoline alkaloid is	89.	The main constituent of Cascare grade are of
a.	Tyrosine		type glycosides.
b.	{c}Tryptophan	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