

RRB 21 July 2019

1. The synonym for Chlorinated lime is

- (a) Slaked lime
- (b) Bleaching Powder
- (c) Lime stone
- (d) Quick lime

2. Name the schedule in which the factory premises must comply

- (a) M
- (b) N
- (c) O
- (d) P

3. Which State topped the medal tally in Khelo India Youth Games 2019?

- (a) Punjab
- (b) Karnataka
- (c) Haryana
- (d) Maharashtra

4. "Wilhelmy plate method" is used to measure

- (a) Surface tensions
- (b) Specific gravity
- (c) Viscosity
- (d) Density

5. The HLB Value of sodium lauryl sulphate is

- (a) 18
- (b) 40
- (c) 11.6
- (d) 1.8

6. In Kjeldahl's method, the sample containing Nitrogen is digested with

- (a) Conc. H_2SO_4
- (b) Strong ammonia solution
- (c) Conc. NaOH
- (d) Fuming HNO_3

7. Members of Rajya Sabha are elected for a term of

- (a) Six years
- (b) Five years
- (c) Eight years
- (d) Ten years

8. The extent of reproducibility of the result is

- (a) Precision
- (b) Linearity
- (c) Accuracy
- (d) Range

9. The process of transferring of charge from a charged object to the earth is called

-
- (a) Earthing
 - (b) Discharging
 - (c) Charging
 - (d) Skimming

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10. CFR 211 refers to

- (a) Code of Federal regulations 211
- (b) Code of Final Regulations 211
- (c) Compliance to Final Regulations 211
- (d) Compliance to Federal Regulations 211

11. Among the following organs in which the perfusion rate is maximum?

- (a) Liver
- (b) Lungs
- (c) Kidney (Chosen option)
- (d) Heart

12. Find the next number in the series.

4, 9, 20, 43, 90, ?

- (a) 185
- (b) 175
- (c) 195
- (d) 205

13. 1650 boys and 1100 girls are examined in a test; 42% of the boys and 36% of the girls pass the test. The percentage of the total who failed is

- (a) 63.4
- (b) 62.4
- (c) 60.4
- (d) 61.4

14. Indicate the amount of gelling agent used in after shave gel

- (a) 10 to 15%
- (b) 2 to 5%
- (c) 0 to 1% (Chosen option)
- (d) 5 to 10%

15. By selling a CPU for Rs.6095, a man makes a profit of 15%. At what price should he sell it to make a profit of 25%? (in Rs.)

- (a) 6635
- (b) 6625
- (c) 6615
- (d) 6645

16. A woman stands on the road facing South direction. She turns 72 degrees in clockwise direction and 162 degrees in anti-clockwise direction. Which direction is she facing now?

- (a) West
- (b) East
- (c) North
- (d) South

17. What is AYUSH?

- (a) Ayurveda, Yoga, Unani, Siddha and Herbal
- (b) Allopathy, Unani, Siddha and Homeopathy
- (c) Ayurveda, Yoga, Unani, Siddha and Homeopathy (Chosen option)
- (d) Ayurveda, Unani, Siddha and Homeopathy

18. "Cryoscopic method" is used to adjust

- (a) Particle size
- (b) Isotonicity (Chosen option)
- (c) Diffusion
- (d) Viscosity

19. Indicate the example of Pneumatic dryers

- (a) Fluidized bed dryer
- (b) Freeze dryer
- (c) Drum Dryer
- (d) Spray dryer

20. Which one of the following lymphocytes produce antibodies?

- (a) B Cells
- (b) T cells
- (c) Macrophages
- (d) Helper T cells

21. The Objects in motion on ground level possess _____ energy. (Taking ground level as 0 potential)

- (a) frictional
- (b) gravitational
- (c) potential
- (d) kinetic

22. Fat-soluble vitamins are binding to

- (a) α 2-globulin
- (b) β 2-globulin (Chosen option)
- (c) α 1-globulin
- (d) β 1-globulin

23. What is the symbol of the element Tin?

- (a) Tn
- (b) Sn
- (c) Si
- (d) Ti

24. Which of the following elements is a diatomic molecule?

- (a) Phosphorous
- (b) Argon
- (c) Sulphur
- (d) Chlorine

25. An ideal sunscreen agent should absorb erythmogenic radiations in the range of

- (a) 100 to 150 nm
- (b) 490 to 520 nm
- (c) 400 to 450 nm
- (d) 290 to 320 nm

26. Impure blood (deoxygenated) carried by _____

- (a) Aorta
- (b) Pulmonary Artery
- (c) Pulmonary vein
- (d) Coronary Artery

27. The end point of redox titration is,

- (a) Conductometric technique
- (b) Potentiometric and indicator method
- (c) Indicator, potentiometric and amperometric methods
- (d) Internal indicator only

28. The ability of the eye lens to adjust its focal length is called _____

- (a) Focal length
- (b) Accommodation
- (c) Modulation
- (d) Magnification

29. Which one of the following is not a kind of major punishment for various types of misconduct?

- (a) Withholding of increments
- (b) Discharge
- (c) Demotion
- (d) Loss of privileges

30. Indicate the gas used for sterilization

- (a) Nitrous oxide
- (b) Cyclohexane
- (c) Chloroform
- (d) Ethylene oxide

31. On dividing a number by 371, we get 52 as remainder. On dividing the same number by 53, what will be the remainder?

- (a) 49
- (b) 51
- (c) 50
- (d) 52

32. Which one of the following is NOT a terms associated with therapeutic Drug-drug interaction?

- (a) Addition
- (b) Oxidation
- (c) Synergism
- (d) Antagonism

33. A train passes a station platform in 48 seconds and a man standing on the platform in 32 seconds. If the speed of the train is 29 m/s, what is the length of the platform? (meter)

- (a) 474
- (b) 464
- (c) 494
- (d) 484

34. The Constitution of India mainly stands for a

- (a) Religious State
- (b) Pious State
- (c) Secular State
- (d) Non-Secular State

35. What is the SI unit of Pressure?

- (a) Hertz
- (b) Joule
- (c) Pascal
- (d) Henry

36. In a certain code language, if ALLOW is coded as ODOZR, then how is DELAY coded in that

language?

- (A) CEPIH
- (B) HGOBD
- (C) WVOZB
- (D) GHODB

37. Which one of the following is the normal range of diastolic pressure?

- (a) 70-90mm Hg
- (b) 100-120 mm Hg
- (c) 110-145 mm Hg

(d) 40-55mm Hg

38. If flowability is expressed as GOOD then the percentage compressibility is having the value of

- (a) 5 to 10%
- (b) 12 to 16%
- (c) 23 to 25%
- (d) 18 to 21%

39. One milligram is equal to

- (a) 0.1 gram
- (b) 0.01 gram
- (c) 0.0001 gram
- (d) 0.001 gram

40. World heritage site 'Group of Monuments at Hampi' is situated in which State?

- (a) Gujarat
- (b) Kerala
- (c) Karnataka
- (d) Tamil Nadu

41. Sodium Fluoride is used to prevent

- (a) Ulcer
- (b) Dental caries (Chosen option)
- (c) Dandruff
- (d) Skin problems

42. Nicotinic antagonist is

- (a) Decamethonium
- (b) Atropine
- (c) Suxamethonium
- (d) Hyoscine

43. Which one of the following is NOT a barrier to Communication?

- (a) Language
- (b) Multiple transmitters
- (c) Pollution
- (d) Noise

44. Identify the mechanism of hammer mill

- (a) Attrition
- (b) Compression
- (c) Impact
- (d) Cutting

45. What is the other name for Vitamin B3?

- (a) Pyridoxine
- (b) Riboflavin
- (c) Pantothenic acid
- (d) Nicotinic acid

46. Bacterial cell walls are composed of

- (a) Peptidoglycan
- (b) Sterols
- (c) Proteins
- (d) Polysaccharides

47. The identification test for protein is _____

- (a) Hydrolysis test

- (b) Kries test
- (c) Biuret test
- (d) Molisch's test

48. Choose the corresponding hex decimal number for the binary number 1011.

- (a) A
- (b) C
- (c) B
- (d) D

49. Ethylene gas promotes

- (a) Root formation
- (b) Abscission of leaves
- (c) Cell division
- (d) Fruit ripening

50. The percentage of total calories obtained from carbohydrates should be between

- (a) 5 to 10%
- (b) 20 to 30%
- (c) 50% to 60%
- (d) 10% to 20%

51. Reduction in chemical reactions is the _____

- (a) loss of hydrogen
- (b) gain of oxygen
- (c) gain of nitrogen
- (d) gain of hydrogen

52. Isomerism caused by the different arrangements of atoms or groups in space is called as

- (a) Tautomerism
- (b) Structural isomerism
- (c) Metamerism
- (d) Stereoisomerism

53. A tax collected at every stage of value addition either by production or distribution is known as

- (a) Indirect Tax
- (b) Progressive Tax
- (c) Value Added tax
- (d) Direct Tax

54. Which among the following is not a 'Dissolved-materials' in domestic sewage?

- (a) Phosphates
- (b) Silt
- (b) Nitrates
- (d) Ammonia

55. Indicate the chemical constituent of Vitamin D

- (a) Tocopherol
- (b) Biotin
- (c) Calciferol
- (d) Ascorbic acid

56. Which of the following is not a strongly activating ortho para directors?

- (a) -NH_2
- (b) -OCH_3
- (c) -NHR
- (d) -OH

57. Emetin an alkaloid of ipecacuanha, act as

- (a) Anti-malarial
- (b) Anti-diarrheal
- (c) Amoebicide
- (d) Antiseptic

58. Which of the following drug is used to demonstrate the topical action on eye?

- (a) Ketotifen
- (b) Tolmetin
- (c) Nifedipine
- (d) Lignocaine

59. Identify the salt used for polishing the capsule

- (a) Sodium bicarbonate
- (b) Starch
- (c) Ammonium chloride
- (d) Sodium chloride

60. Which dye will give yellow colour

- (a) Tartrazine
- (b) Indigo carmine
- (c) Amaranth
- (d) Erythrosin

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62. Shift in λ max towards longer wavelength in UV visible spectroscopy is

- (a) Hypsochromic shift
- (b) Hypochromic shift
- (c) Bathochromic Shift
- (d) Hyperchromic shift

63. According to Wedge theory, monovalent soaps give

- (a) W/O/W emulsions
- (b) O/W/O emulsions
- (c) O/W emulsions
- (d) W/O emulsions

64. Thioglycolic acid is used in the limit test for

- (a) Iron
- (b) Chloride
- (c) Lead
- (d) Sulphate

65. The ratio of number of girls to boys in a school of 3060 students is 33:35. How many more girls should be admitted to make the ratio 1:1?

- (a) 100
- (b) 110
- (c) 80
- (d) 90

66. What would be the period for completing priority review in NDA?

- (a) 6 months
- (b) 9 months
- (c) 3 months

(d) 12 months

67. Dioscin on hydrolysis gives

- (a) Glucose and galactose
- (b) Glucose and xylose
- (c) Xylose and rhamnose
- (d) Glucose and rhamnose

68. The Augusta Masters trophy is related to which game/sport?

- (a) Baseball
- (b) Golf
- (c) Cricket
- (d) Football

69. Who is called the Indian Einstein?

- (a) Genghis Khan
- (b) Nagarjuna (Chosen option)
- (c) Amir Khusrau
- (d) Subhas Chandra Bose

70. Who discovered the Penicillin vaccine?

- (a) Watson and Crick
- (b) Alexander Fleming
- (c) Robert Koch
- (d) Edward Jenner

71. "Lyophilization" means

- (a) Vacuum dryer
- (b) Spray dryer
- (c) Freeze dryer
- (d) Fluidized bed dryer

72. At what time of the day is the relative humidity normally at a minimum?

- (a) About midnight
- (b) Just before sunrise
- (c) When the air temperature is lowest
- (d) When the air temperature is highest

73. Sterilization by Autoclave is an example for

- (a) Radiation sterilization
- (b) Moist Heat Sterilization
- (c) Gaseous sterilization
- (d) Dry Heat sterilization

74. The basis for the relationship between the voltage generated by an electrochemical cell and the relevant concentration at each electrode is explained by

- (a) Faradays Law
- (b) Nitrogen Rule
- (c) Gibbs Equation
- (d) Nernst Equation

75. Which book uses a two-letter coding system

- (a) Orange
- (b) Red
- (c) Blue
- (d) Green

76. How many registered pharmacists elected amongst themselves for state pharmacy council?

- (a) 6

- (b) 5
- (c) 4
- (d) 3

77. In the (preparation of liposomes) proliposomes method, the lipids are dried down to a finely divided particulate support such as

- (a) Powdered Sodium sulphate
- (b) Powdered sodium chloride
- (c) Powdered Sodium bi carbonate
- (d) Powdered potassium chloride

78. Indicate the use of Lanolin

- (a) Colouring agent
- (b) Preservative
- (c) Emollient
- (d) Viscosity Controller

79. Cells are enclosed by a plasma membrane composed mainly of _____ and

- (a) Fats and carbohydrates
- (b) Lipids and emulsified fats
- (c) Proteins and emulsified fats (Chosen option)
- (d) Lipids and proteins

80. Cranial nerves arises from the _____

- (a) Heart
- (b) Brain (Chosen option)
- (c) Lungs
- (d) Kidney

81. IUPAC name for the structure $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2$ is

- (a) butyl
- (b) propyl
- (c) pentyl
- (d) ethyl

82. Which of the following drug is used to demonstrate the mydriatic action

- (a) Procaine
- (b) Atropine Sulphate
- (c) Chlorambucil
- (d) N-Fluorouracil

83. If "extraction ratio (ER) value is zero", then there is no

- (a) Absorption
- (b) Elimination
- (c) Distribution
- (d) Metabolism

84. State of being free from all living microorganisms is known as

- (a) Asepsis
- (b) Sterile
- (c) Contamination
- (d) Sepsis

85. Narora Nuclear Power Plant is located in which of the following States?

- (a) Andhra Pradesh
- (b) Madhya Pradesh
- (c) Himachal Pradesh
- (d) Uttar Pradesh

86. Which one among the following has High glycemic index?

- (a) Syrupy foods
- (b) Whole grains
- (c) Brown rice
- (d) Vegetables

87. In universal indicators a pH of 7 is shown with

- (a) Blue Colour
- (b) Pink Colour
- (c) Green colour
- (d) Yellow colour

88. How much a "post - tax return on networth" will be fixed by the government, while fixing the sale prices of bulk drugs?

- (a) 10%
- (b) 16%
- (c) 12%
- (d) 14%

89. Jabalpur city is situated on the bank of the river

- (a) Narmada
- (b) Brahmaputra
- (c) Mahanadi
- (d) Bhima

90. In this question, relationship between different elements is shown in the statement. This statement is followed by three conclusions. Assume the given statement to be true and choose the answer from the given options:

Statement: $F = L < A < R > E$

Conclusions:

i) $A > E$

ii) $F < R$

iii) $L > E$

- (a) Only i) and ii) follow
- (b) Only ii) follows
- (c) Only ii) and iii) follow
- (d) All follow

91. What is the diameter of Large Unilamellar vesicle?

- (a) 400 to 600nm
- (b) 600 to 800nm
- (c) 0 to 100nm
- (d) 100 to 400nm

92. Indicate the region of oral mucosa where the blood flow will be high?

- (a) Sublingual
- (b) Frenulum
- (c) Ventral Tongue
- (d) Buccal

93. Which of the following is an Autosomal Dominant disorder?

- (a) Thalassemia's
- (b) Alkaptonuria
- (c) Polycystic Kidney disease
- (d) Wilson disease

94. Flame Ionisation Detector is the most common detector for

- (a) High Pressure Liquid Chromatography

- (b) Liquid Chromatography
(c) Thin Layer Chromatography
(d) Gas Chromatography

95. Insulin is composed of total _____

- (a) 30 amino acids
(b) 21 amino acids
(c) 81 amino acids
(d) 51 amino acids

96. What you mean by Botanical identity of a medicinal plant?

- (a) Genus, species, subspecies/variety, author and family
(b) Species name
(c) Genus and species
(d) Genus, species, subspecies/variety, author, family and active principles

97. Which type of resin present in Benzoin?

- (a) Gum resin
(b) Oleo gum resin
(c) Oleo resin
(d) Balsamic resin

98. The half-life of C-14 is

- (a) 8000 years
(b) 1020 years
(c) 5730 years
(d) 570 years

99. Two bells ring at intervals of 86 seconds and 48 seconds. If they both ring at 10 O'clock in the morning together, after how many seconds will they ring together again?

- (a) 3004
(b) 2084
(c) 2044
(d) 2064

100. Which among the following is used for radioactive dating?

- (a) Krypton
(b) Sodium
(c) Carbon
(d) Aluminum

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