

Instructions for Question Paper may be written here

Questions for the post of Laboratory Attendants

1. In a sample of ethyl ethanoate ($\text{CH}_3\text{COOC}_2\text{H}_5$) the two oxygen atoms have the same number of electrons but different number of neutrons. Which of the following is the correct reason for it?
 - (a) One of the oxygen atoms has gained electrons
 - (b) One of the oxygen atoms has gained two neutrons
 - (c) The two oxygen atoms are isobars.
 - (d) The two oxygen atoms are isotopes
2. A cell will swell up if
 - (a) the concentration of water molecules in the cell is higher than the concentration of water molecules in surrounding medium
 - (b) the concentration of water molecules in surrounding medium is higher than water molecules concentration in the cell.
 - (c) the concentration of water molecules is same in the cell and in the surrounding medium
 - (d) concentration of water molecules does not matter
3. Survival of plants in terrestrial environment has been made possible by presence of
 - (a) intercalary meristem
 - (b) conducting tissue
 - (c) apical meristem
 - (d) parenchymatous tissue
4. In which group of animals coelom is filled with blood?
 - (a) Arthropoda
 - (b) Annelida
 - (c) Nematoda
 - (d) Echinodermata

5. In the manufacture of safety matches, which of the following materials are used to coat the two sides of match boxes?
1. Yellow phosphorus
 2. Glue
 3. Glass powder
 4. Red phosphorus
- (a) 1, 2 and 3
(b) 1,3 and 4
(c) 1,2 and 4
(d) 2,3and4
6. Glass is made of the mixture of ?
- (a) quartz and mica
(b) sand and salt
(c) sand and silicates
(d) None of these
7. Epoxy resins are used as
- (a) moth repellants
(b) insecticides
(c) detergents
(d) adhesives
8. What is condensation?
- (a) Change of gas into solid
(b) Change of solid into liquid
(c) Change of vapour into liquid
(d) Change of heat energy into cooling energy
9. In humans each kidney has large number of filtration units called _____ ?
- (a) Neutrons
(b) Neurons
(c) Neptune
(d) Nephrons
10. Which of the following is a physical change?
- (a) Oxidation
(b) Reduction
(c) Sublimation
(d) Decomposition
11. A substance which changes readily into vapour without heating is called ?
- (a) efflorescent
(b) synthetic
(c) volatile
(d) effervescent
12. Catalytic properties of a substance may be best defined as a phenomenon of ?
- (a) Absorption
(b) Chemisorption
(c) Adsorption
(d) None of these

13. In which of the following processes light energy is converted into chemical energy?
- (a) Respiration
 - (b) Fermentation
 - (c) Photosynthesis
 - (d) Photorespiration
14. Who won 2017 Australian Open Men's Single title
- (a) Novak Djokovic
 - (b) Rafael Nadal
 - (c) Roger Federer
 - (d) Andy Murray
15. Anti-Leprosy Day observed on
- (a) 18th January
 - (b) 25th January
 - (c) 30th January
 - (d) 2nd February
16. International Mother Language Day is celebrated on
- (a) 5th February
 - (b) 12th February
 - (c) 18th February
 - (d) 21st February
17. Total number of satellites launched by ISRO on 15th February, 2017 is
- (a) 102
 - (b) 104
 - (c) 108
 - (d) 110
18. Which two companies agreed to merge to form India's largest telecom company
- (a) Vodafone and Idea
 - (b) Airtel and Idea
 - (c) Reliance and Aircel
 - (d) Vodafone and Aircel
19. What is the name of the first train that is made fully in India
- (a) Duranto
 - (b) Uttam
 - (c) Medha
 - (d) Bani
20. "Sensex" is related to
- (a) BSE
 - (b) NSE
 - (c) RBI
 - (d) SEBI
21. Who among following was the longest serving Arab Leader ?
- (a) King Abdullah
 - (b) Muammar Gaddafi
 - (c) Hosni Mubarak
 - (d) Bashar-al-Assad

22. MS Dhoni is the _____ captain of Indian Cricket Team
- (a) 41th
 - (b) 35th
 - (c) 31st
 - (d) 34th
23. Wal-Mart in India is associated with
- (a) Big Bazaar
 - (b) Spencer's Retail
 - (c) Easy Day Stores
 - (d) Spur Retail
24. Name of the Nokia's mobile phone operating system
- (a) Android
 - (b) Windows
 - (c) Symbian
 - (d) JAVA
25. Which was the India's first scheduled airline ?
- (a) Air India
 - (b) Tata Airlines
 - (c) Air Birla
 - (d) Indian Airlines
26. Which political party does Sri Ajit Singh represents ?
- (a) Rashtriya Lok Dal
 - (b) Samta Party
 - (c) Samajwadi Party
 - (d) Jan Lok Dal
27. "Mahatma Gandhi National Rural Employment Guarantee Act" provides employment guarantee for how many days per year
- (a) 120
 - (b) 100
 - (c) 180
 - (d) 90
28. What is the current FDI upper cap in telecom in India ?
- (a) 51%
 - (b) 74%
 - (c) 49%
 - (d) No Cap
29. Who among following ordered "Jallian Wala Bagh Massacre" ?
- (a) Lord Mountbatten
 - (b) John Simon
 - (c) Reginald Dyer
 - (d) N.D.K MacEven
30. HIV contaminated waste products can be decontaminated by the following agents except
- (a) Sodium hypochlorite
 - (b) Formaldehyde
 - (c) Methanol
 - (d) Glutaraldehyde

31. Combustion is the process in which ?
(a) heat is produced.
(b) light is produced.
(c) heat and light are produced.
(d) None of these
32. The chemical used as a 'fixer' in photography is
(a) borax
(b) sodium thiosulphate
(c) sodium sulphate
(d) ammonium persulphate
33. The rate of chemical reaction does not depend upon ?
(a) Concentration
(b) Catalyst
(c) Temperature
(d) Pressure
34. Which of the following is a chemical change?
(a) Magnetisation of iron
(b) Melting of ice
(c) Burning of sulphur
(d) Melting of wax
35. The type of glass used in making lenses and prisms is?
(a) soft glass
(b) pyrex glass
(c) jena glass
(d) flint glass
36. Wood is the main raw material for the manufacture of ?
(a) paint
(b) paper
(c) ink
(d) gun powder
37. How does common salt help in separating soap from the solution after saponification?
(a) By decreasing solubility of soap
(b) By increasing solubility of soap
(c) By decreasing density of soap
(d) By increasing density of soap
38. Which of the following is commonly called a 'polyamide'?
(a) Rayon
(b) Orlon
(c) Terylene
(d) Nylon
39. The major ingredient of leather is ?
(a) carbohydrate
(b) collagen
(c) polymer
(d) nucleic acid

40. Which of the following substances undergoes chemical change on heating?
- Sodium chloride
 - Silica
 - Lead nitrate
 - Platinum wire
41. Water is neither acidic nor alkaline because
- it cannot accept or donate protons.
 - it boils at a high temperature.
 - it can dissociate into equal number of hydrogen ions.
 - it cannot donate or accept electrons.
42. Chemical change does not take place in case of?
- souring of milk into curd
 - rusting of iron in atmosphere
 - burning of magnesium ribbon in air
 - emitting of light by a red hot platinum wire
43. Vulcanization is a ?
- science of studying volcanoes
 - method to degrade polymers
 - process connected with the making of voltaic cells
 - process of hardening of rubber by heating it with sulphur
44. Which of the following causes the rusting of iron?
- Oxidation
 - Reduction
 - Chemical reaction with oxygen
 - Chemical reaction with CO
- 1 and 2
 - 2 and 3
 - 3 and 4
 - 1 and 3
45. Which of the following statements is/are true?
- The process of oxidation leads to a gain of electrons.
 - The process of oxidation leads to a loss of electrons.
 - The process of reduction leads to a gain of electrons.
 - The process of reduction leads to a loss of electrons.
- 1 only
 - 1 and 4
 - 2 and 3
 - 4 only
46. Light year is a unit of measurement of
- speed of light
 - stellar distances
 - speed of rockets
 - speed of aero planes

47. One micron is equal to
- (a) 1/10th of nm
 - (b) 1/100th of nm
 - (c) 1/1000th of nm
 - (d) 1/10000th of nm
48. Hydrometer is an instrument
- (a) for measuring sound under water
 - (b) to detect the presence of hydrogen in the atmosphere
 - (c) for measuring the specific gravity of liquids
 - (d) to detect the changes in atmospheric humidity
49. 'Bar' is the unit of _____?
- (a) heat
 - (b) temperature
 - (c) current
 - (d) atmospheric pressure
50. A chronometer measures
- (a) sound waves
 - (b) time
 - (c) water waves
 - (d) colour contrast
51. One fathom is equal to?
- (a) 6 meters
 - (b) 6 feet
 - (c) 60 feet
 - (d) 100 cms
52. What is the unit for measuring the pitch or frequency of sound?
- (a) Coulomb
 - (b) Hum
 - (c) Cycles
 - (d) Hertz
53. Electric current is measured by
- (a) anemometer
 - (b) voltmeter
 - (c) ammeter
 - (d) commutator
54. Fathom is the unit of _____?
- (a) sound
 - (b) depth
 - (c) distance
 - (d) frequency
55. Kilohertz is a unit which measures
- (a) electric resistance
 - (b) power used by a current of one ampere
 - (c) electromagnetic radio wave frequencies
 - (d) None of these

56. If you swim one km, how many miles do you swim?
- (a) 0.5
 - (b) 0.62
 - (c) 0.84
 - (d) 1.6
57. Kilowatt is a unit to measure
- (a) Work
 - (b) Electricity
 - (c) Power
 - (d) Water current
58. Very small time intervals are accurately measured by the
- (a) Pulsars
 - (b) Quartz clocks
 - (c) Atomic clocks
 - (d) White dwarfs
59. Decibel is the unit used for
- (a) speed of light
 - (b) intensity of heat
 - (c) intensity of sound
 - (d) radio wave frequency
60. Which of the following is correct regarding the barometer commonly used in homes to see weather indication?
- (a) It is called Furlin's barometer and uses mercury
 - (b) It is called Furlin's barometer and uses alcohol
 - (c) It is called aneroid barometer and uses mercury
 - (d) None
61. What are the specific conditions of temperature and pressure under which the gas can be liquefied.
- (a) Low temperature, low pressure
 - (b) High temperature, low pressure
 - (c) Low temperature, high pressure
 - (d) High temperature, high pressure
62. Which of the following are physical changes?
- (i) Melting of iron metal
 - (ii) Rusting of iron
 - (iii) Bending of an iron rod
 - (iv) Drawing a wire of iron metal
- (a) (i), (ii) and (iii)
 - (b) (i), (ii) and (iv)
 - (c) (i), (iii) and (iv)
 - (d) (ii), (iii) and (iv)

63. Which one of the following has maximum number of atoms?
(a) 18 g of H_2O
(b) 18 g of O_2
(c) 18 g of CO_2
(d) 18 g of CH_4
64. Organisms without nucleus and cell organelles belong to
(a) fungi
(b) protista
(c) algae
(d) bacteria
65. Which cells do not have perforated cell walls?
(a) Tracheids
(b) Companion cells
(c) Sieve tubes
(d) Vessels
66. The numerical ratio of displacement to distance covered by a moving object is
(a) always less than 1
(b) always equal to 1
(c) always more than 1
(d) equal or less than 1
67. According to the third law of motion, action and reaction
(a) always act on the same body
(b) always act on different bodies in opposite directions
(c) have same magnitude and direction
(d) act on either body at normal to each other
68. The value of acceleration due to gravity
(a) is least on equator
(b) is least on poles
(c) is same on equator and poles
(d) increases from pole to equator
69. The gravitational force between two objects is F . If the masses of both objects are halved without changing distance between them, then the gravitational force would become
(a) $F/4$
(b) $F/2$
(c) F
(d) $2F$
70. Among the given options, which one is not correct for the use of large amount of fertilisers and pesticides?
(a) They are eco-friendly
(b) They turn the fields barren after some time
(c) They remove the useful component from the soil
(d) They destroy the soil fertility

71. Find out the correct sentence

- (i) Hybridisation means crossing between genetically dissimilar plants.
 - (ii) Cross between two varieties is called as inter specific hybridisation.
 - (iii) Introducing genes of desired character into a plant gives genetically modified crop.
 - (iv) Cross between plants of two species is called as inter varietal.
- (a) (i) and (iii)
 - (b) (ii) and (iv)
 - (c) (ii) and (iii)
 - (d) (iii) and (iv)

72. Find out the correct sentence about manure

- (i) Manure contains large quantities of organic matter and small quantities of nutrients.
 - (ii) It increases the water holding capacity of sandy soil.
 - (iii) It helps in draining out of excess of water from clayey soil.
 - (iv) Its excessive use pollutes environment because it is made of animal excretory waste.
- (a) (i) and (iii)
 - (b) (i) and (ii)
 - (c) (ii) and (iii)
 - (d) (iii) and (iv)

73. On seeing good food our mouth waters. This fluid is actually

- a) Water
- b) Hormone
- c) Enzyme
- d) None of the above

74. Villi present on the inner lining of the intestinal wall

- a) Secretes enzymes for digestion
- b) Secretes hormones
- c) Decreases the surface area for
- d) Increases the surface area for absorption

75. Right part of the human heart contains

- a) Oxygenated blood
- b) Mixed blood
- c) Deoxygenated blood
- d) No blood

76. The gap between two neurons is called _____

- a) Synapse
- b) Synthesise
- c) Dendron
- d) Axon

77. Involuntary action including blood pressure, salivation and vomiting are controlled by the _____ in the hind-brain.
- Medals
 - Cerebellum
 - Medulla
 - Cerebrum
78. If there is a deficiency of growth hormone the child becomes _____
- Blind
 - Mentally retarded
 - Giant
 - Dwarf
79. Pre-natal sex determination has been prohibited by law due to
- High cost charged by doctors
 - Possible danger of mother's health
 - Increasing cases of female foeticide
 - Increasing cases of male foeticide
80. Copper T and Loops are
- Contraceptive devices
 - Do not have stamen
 - Conducive devices
 - Contaminating devices
81. If in human a sperm (22+Y) fertilizes an egg (22+Z), the sex of the foetus shall be
- Male
 - Female
 - Either male or Female
 - None of the above
82. The number of autosomes in a human body cell is
- 44
 - 46
 - 22
 - 23
83. The theory of Natural Selection was proposed by
- Lamarck
 - Darwin
 - Mendel
 - Haldane
84. The UV radiation from the sun is likely to cause _____ in human
- Skin Cancer
 - Lung Cancer
 - Liver Cancer
 - Brain Cancer

85. World Environment day is celebrated on
- July 1
 - July 5
 - June 1
 - June 5
86. Which one of the following is a non-biodegradable substance
- DDT
 - Manure
 - Paper
 - Cotton Cloth
87. The best way to dispose waste is by
- Making a paste of all domestic waste and putting them in a river
 - Separating biodegradable and non-biodegradable waste before disposing in bins
 - Throw the waste on road side
 - Dumping all domestic waste in litter bin
88. The three Rs. To save the environment are
- Remember, Reduce, Reuse
 - Recall, Reduce, Refund
 - Reduce, Recycle, Reuse
 - Reduce, Refund, Reuse
89. Chipko Andolan is associated with
- Protesting against pasting of posters on walls
 - Saving money
 - Using more postal stamps
 - Saving forest
90. Wild life includes
- Wild animals only
 - Wild plants only
 - Wild plants and animals
 - All plant and animals
91. Ganga action plan has been initiated to
- Dredge and make the river better for water transport
 - Increase fishery in the Ganges
 - Clean excessive pollutants in Ganges water
 - Clean the river for bathing
92. Conservation of Wildlife includes
- Preventing poaching of animals
 - Construction of National parks, Sanctuaries
 - Ban on trading endangered species
 - All of the above
93. The first microscope was invented by
- Leuwennhoek
 - Hooke
 - F. Janssen and Z. Janssen
 - Schleiden

94. Physical basis of life is
- (a) Cell
 - (b) Protoplasm
 - (c) Nucleus
 - (d) Food
95. Planet nearest to sun is
- (a) Earth
 - (b) Moon
 - (c) Mercury
 - (d) Mars
96. NABL is
- (a) National Accreditation Bureau of Laboratories
 - (b) National Accreditation Board for testing and Calibration Laboratories
 - (c) National Authority of Botanical Laboratories
 - (d) National Authority of Board of Laboratories
97. The Ministry of AYUSH has been declared on
- (a) November, 2014
 - (b) November, 2015
 - (c) December, 2013
 - (d) January, 2016
98. CCRAS is Known as-
- (a) Central Council for Research in Ayurveda and Siddha
 - (b) Central Council for Research in Ayurvedic Sciences
 - (c) Central Council for Research of Alternative Medical Sciences
 - (d) Central Corporation on Research in Ayurveda and Siddha
99. RCH is
- (a) Reproductive Care of Health
 - (b) Reproductive Child Health
 - (c) Registry of Child Health
 - (d) Reproduction and Child Health
100. Who is appointed as the head of the Committee formed by Supreme Court to run BCCI
- (a) Vinod Rai
 - (b) Ramachandra Guha
 - (c) Vikram Limaye
 - (d) Diana Edulji