PREVIOUS YEAR PAPER

DSSSB Food Safety Officer 2021 — 22 April 2021, Shift 3

DSSSB Other Posts · 22 April 2021 · Shift 3

176 of the paper's 200 questions · +1 for a correct answer, −0.25 for a wrong one · 120 minutes

Left out of the original paper: 24 (any question that needs a figure, a symbol or formatting we cannot show, or whose text did not read back cleanly from the booklet).

Questions from the Delhi Subordinate Services Selection Board's paper of 22 April 2021, Shift 3. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/dsssb-other-posts/previous-year-papers/dsssb-other-posts-2021-food-safety-officer-22-apr-shift-3/

Discipline1

1. Which statement best describes viruses?
   (a) They are visible under a compound microscope
   (b) They cannot pass through bacterial filters
   (c) They can reproduce outside a host cell
   (d) They can cause disease in both prokaryotes and eukaryotes
   Answer: (d)

2. _____ do not fall within the Five Kingdom scheme.
   (a) algae
   (b) viruses
   (c) protozoa
   (d) fungi
   Answer: (b)

3. Gram reaction developed in 1884 by Danish physician Christian Gram is used only for:
   (a) Bacteria
   (b) Fungi
   (c) Virus
   (d) Algae
   Answer: (a)

4. All organisms have two names-the first signifies the genus and the second signifies the:
   (a) Kingdom
   (b) Order
   (c) Species
   (d) Class
   Answer: (c)

5. The major constituent of milk which ranges from 85.5 percent to 88.7 percent is:

(a) Water
(b) Lactose
(c) Fat
(d) Protein

Answer: (a)

6. Lactose is present in milk in the form of:

(a) an ionic solution
(b) an emulsion
(c) a true solution
(d) a colloid

Answer: (c)

7. Which of the following is a characteristic of a lyophilic colloid?

(a) They exhibit strong Tyndall effect
(b) They are reversible
(c) They need special methods for preparation
(d) Viscosity of sol is similar to the dispersion medium

Answer: (b)

8. The particles in true solution will not settle down b[illegible]e particles in colloidal suspension can settle upon _____ centrifugation.

(a) High speed
(b) Medium Speed
(c) Low Speed
(d) Low friction

Answer: (a)

9. The toxin produced in a Staphylococcal food intoxication is a:

(a) Neurotoxin
(b) Aflatoxin
(c) Enterotoxin
(d) Hepatotoxin

Answer: (c)

10. Which of the following is a common machining operation?

(a) cooling
(b) hammering
(c) Casting
(d) Drilling

Answer: (d)

11. Which of the following is a common process for joining metal parts and general fabrication work?

(a) Buffing
(b) Polishing
(c) Lapping
(d) Pressing

Answer: (d)

12. Which of the following is a common cause which lead to accidents in a workshop?

(a) Nature of Project
(b) Size of the tools
(c) Traditional technology
(d) Unsafe working position

Answer: (d)

13. A _____ is a substance that deforms continuously under the application of a shear (tangential) stress no matter how small the shear stress may be.

(a) Fluid
(b) Camphor
(c) Solid
(d) Proton

Answer: (a)

14. Which of the following is a basic law, which is ap able to any fluid?

(a) Einstein's theory of relativity
(b) The conservation of mass
(c) Newton's first law of motion
(d) The third law of thermodynamics

Answer: (b)

15. In fluid mechanics, a system is defined as a fixed, identifiable quantity of mass; the system boundaries separate the system from the _____.

(a) context
(b) experiment
(c) experimenter
(d) surroundings

Answer: (d)

16. Any valid equation that relates to physical quantities must be dimensionally _____.

(a) homogeneous
(b) heterogeneous
(c) homologous
(d) accurate

Answer: (a)

17. A cow apparently always in heat is called a _____.

(a) Buller
(b) Bull calf
(c) Bullock
(d) Heifer

Answer: (a)

18. What is cross breeding?

(a) A system of breeding between random breeds
(b) A system of breeding between multiple breeds
(c) A system of breeding between two established breeds
(d) A system of insemination through technology

Answer: (c)

19. The Red Sindhi cow originally belongs to:

(a) Karachi and Hyderabad in Pakistan
(b) Lahore and Punjab in Pakistan
(c) Punjab in India
(d) Western region of Rajasthan

Answer: (a)

20. What percentage of dehydration leads to death in ımals?

(a) 4 percent
(b) 8 percent
(c) 12 percent
(d) 14 percent and above

Answer: (d)

Discipline2

21. Technical drawings allows efficient communication among engineers and can be kept as a record of the _____.

(a) Execution Process
(b) Management Process
(c) Budgeting Process
(d) Planning Process

Answer: (d)

22. Engineering Drawing can be classified in four major branches of engineering. Which of the following is not one of them?

(a) Mechanical Engineering Drawing
(b) Electrical Engineering Drawing
(c) Chemical Engineering Drawing
(d) Civil Engineering Drawing

Answer: (c)

23. The drawing sheets are designated by symbols. Which of the following symbols represent the largest size of the drawing sheet?

(a) A2
(b) A1
(c) A0
(d) A3

Answer: (c)

24. Method of folding of printed drawing sheets is determined as per:

(a) BIS SP: 46-2003
(b) BIS: 46-2003
(c) BIS SP: 80-2003
(d) BIS SP: 36-2021

Answer: (a)

25. Who is considered as the Founder of Microeconomics?

(a) Karl Marx
(b) Friedrich Engels
(c) Adam Smith
(d) Vladimir Lenin

Answer: (c)

26. Who wrote the book 'General Theory of Employment, Interest and Money' that introduced Macro Economics as a means to analyse economies?

(a) Adam Smith
(b) John Maynard Keynes
(c) Karl Marx
(d) Friedrich Engels

Answer: (b)

28. The cardinal utility approach to consumer analysis makes some assumptions. Which of the following is one of them?

(a) The consumer is emotional
(b) The consumer has unlimited income
(c) Utility is subtractive
(d) Consumers intent is to get maximum satisfaction from given income

Answer: (d)

29. _____is a general-purpose electronic spreadsheet used to organize, calculate, and analyze data.

(a) MS Word
(b) MS Excel
(c) MS Power Point
(d) MS Outlook

Answer: (b)

30. Software design essentially involves three abstract concepts. Select the option that is not an abstract concept:

(a) Algorithms

(b) Data structures

(c) Data Science

(d) File structures

Answer: (c)

31. Which of the following is NOT true for a compiler?

(a) A compiler is a program that translates a sentence from a source language.

(b) A compiler is a program that translates a sentence into a target language

(c) A compiler is a program that translates a sentence in random functions

(d) A compiler is a program that translates a sentence while preserving its meaning in the process

Answer: (c)

32. Which of the following is a component of environmental science?

(a) Mathematics

(b) Biology

(c) Psychology

(d) Sociology

Answer: (b)

33. The stages in the process of soil formation are ' ...thering and:

(a) Permeation

(b) Pedogenesis

(c) Pedagogical analysis

(d) Porosity of soil formula

Answer: (b)

34. Which among the following is NOT a problem caused by dam?

(a) Increase in rate of evaporation of stored water

(b) Fragmentation and physical transformation caused by dams

(c) Serious impact on riverine ecosystems

(d) Social consequences of large dams due to the displacement of people

Answer: (a)

35. Which of the following is NOT an objective with which 'Man and the Biosphere (MAB) programme' was launched by UNESCO?

(a) To conserve representative samples of ecosystems

(b) To provide long-term in-situ conservation of genetic diversity

(c) To promote and facilitate basic and applied research and monitoring

(d) To provide recreational space for human nature interactions

Answer: (d)

36. Domesticated cattle are usually classified into two major groups namely European and:
(a) Asian
(b) Australian
(c) Zebu
(d) African
Answer: (c)

37. During the two decades between 1951 and 1970, the annual growth rate in milk production was just about:
(a) 1 percent
(b) 3 percent
(c) 5 percent
(d) 10 percent
Answer: (a)

38. Which one of the following is to be considered while fixing the price of milk from milk producer's point of view?
(a) The cost of milk production
(b) Plant capacity utilization
(c) The market objective of the processing plant
(d) Consideration of the size of the population that is to be covered by the milk scheme
Answer: (a)

39. Which of the following equipment will be found ne Milk Collection Centre?
(a) Atmospheric thermometer
(b) Bottle opener
(c) Gerber centrifuge
(d) Milk sampler
Answer: (d)

40. Which of the following is not a milk-borne disease?
(a) Tuberculosis
(b) Viral Fever
(c) Brucellosis
(d) Typhoid fever
Answer: (b)

Discipline3

41. The percent range of Micrococci microbial groups present in raw milk is:
(a) 1-20
(b) 30-99
(c) 115-165
(d) 200-293
Answer: (b)

42. To maintain hygiene in milk production, the temperature of hot water used for sanitization of equipment should be at least:

(a) 85 °C
(b) 77 °C
(c) 66 °C
(d) 46 °C

Answer: (a)

43. Heat transfer is defined as energy-in-transit due to temperature:

(a) Difference
(b) Similarity
(c) Being Static
(d) Dormancy

Answer: (a)

44. The fundamental law that governs conduction heat transfer was framed by:

(a) Ohm
(b) Fourier
(c) Coulomb
(d) Hooke

Answer: (b)

47. Milk plasma is the portion of milk which is free fr

(a) Fat
(b) Carbohydrate
(c) Water
(d) Minerals

Answer: (a)

49. Absolute Volume is defined as _____dimensional space occupied by matter.

(a) Three
(b) Four
(c) Two
(d) One

Answer: (a)

50. An adiabatic process is one in which there is _____ of heat between a system and its surroundings.

(a) No exchange
(b) Homogeneous exchange
(c) Heterogeneous exchange
(d) Reactive exchange

Answer: (a)

52. Electricity is a form of energy which involves flow of electrons in a _____ to do work.
(a) an insulated circuit
(b) an open circuit
(c) a closed circuit
(d) an open ended circuit
Answer: (c)

53. Resistance (R) is directly proportional to the:
(a) Cross sectional area of wire
(b) Length of wire
(c) Temperature of the conducting wire
(d) Atomic structure of the wire
Answer: (b)

54. What is the relative permeability of soft Iron?
(a) 6500
(b) 3500
(c) 8000
(d) 12000
Answer: (c)

57. Nucleotides have three characteristic components hich of the following is one of the components?
(a) Methionine
(b) Hexose sugar
(c) Carbon
(d) Phosphate
Answer: (d)

58. With the exception of a few catalytic RNA molecules, or ribozymes, the vast majority of enzymes are:
(a) Carbohydrates
(b) Proteins
(c) Fats
(d) Minerals
Answer: (b)

59. There are three general mechanisms which describe multi-substrate enzyme system. Which of the following is one of them?
(a) Inert mechanism
(b) Dynamic mechanism
(c) Static mechanism
(d) Ping Pong Mechanism
Answer: (d)

60. Milk is concentrated using heat energy. Based on the methods of treatment of milk, which state of milk is achieved through the concentration using heat energy?

(a) Khoya
(b) Cheese
(c) Paneer
(d) Ice-cream

Answer: (a)

Discipline4

61. What is the percent of protein in the chemical composition of whole milk curds (Dahi)?

(a) 1.4-1.8
(b) 3.2-3.4
(c) 4.6-4.9
(d) 8.2-8.4

Answer: (b)

62. The legal standard established by the Food Safety and Standards Authority of India for Paneer is:

(a) FSSR-2011
(b) FSSR-2013
(c) FSSR-2015
(d) FSSR-2016

Answer: (a)

63. Who patented the Hand-cranked ice crea[illegible]er in the 1840's?

(a) Marco Polo
(b) Jacob Fussel
(c) Nancy Johnson
(d) Carl von Linde

Answer: (c)

64. The first ice cream cone was produced by Italo Marchiony in the year:

(a) 1896
(b) 1900
(c) 1919
(d) 1920

Answer: (a)

65. Sodium alginate is a polysaccharide of guluronic acid and mannuronic acid. How is it represented?

(a) E401
(b) E407
(c) E410
(d) E412

Answer: (a)

66. What is the water content in percentage of a cream that contains 30 percent fat?

(a) 20 percent
(b) 34 percent
(c) 44 percent
(d) 64 percent

Answer: (d)

67. Which of the following CANNOT be classified as a power-driven cream separator?

(a) Gravity cream separator
(b) Semi-closed or semi-hermetic separator
(c) Closed bowl or hermetic separator
(d) Self-desludging separator

Answer: (a)

68. To reduce the multiplication of micro-organisms and to get low bacterial count in milk and milk products, raw milk should be immediately maintained at or below:

(a) 0 °C
(b) 1 °C
(c) 5 °C
(d) 7 °C

Answer: (c)

69. Capacity of refrigeration system is expressed as _____.

(a) Ton of refrigeration
(b) Kilogram of refrigeration
(c) Quintal of refrigeration
(d) Kilo liter of refrigeration

Answer: (a)

70. The amount of energy used by a compressor is affected by some factors. Which of the following is NOT one of the factors?

(a) Type of compressor
(b) Moisture in the atmosphere
(c) Compressor load
(d) Temperature difference of the system

Answer: (b)

72. The word ‘cheese’ is derived from a _____ word.

(a) German

(b) French

(c) Latin

(d) Greek

Answer: (c)

73. Which of the following is NOT the chief factor responsible to determine what kind of cheese would be produced as final output?

(a) Similarity of the quality of milk

(b) Degree of souring and type of souring organisms added

(c) Temperature of renneting and subsequent cooking or scalding of the curd in the whey

(d) Milling and salting of the curd before putting in the hoop or mould

Answer: (a)

74. The India District Co-operative Milk Producers' Union was registered as a response to exploitation of marginal milk producers by traders or agents at Anand on December 14 in the year:

(a) 1946

(b) 1964

(c) 1984

(d) 1999

Answer: (a)

75. The National Dairy Development Board (NDDB) was created in the year:

(a) 1949

(b) 1994

(c) 1956

(d) 1965

Answer: (d)

77. Which of the following is a suitable location for the establishment of a Dairy plant?

(a) Close to cattle sheds or source of milk

(b) Preferably near grazing pastures or forests.

(c) Away from environmentally polluted areas that can contaminate food

(d) Near state transport depots.

Answer: (c)

78. Nuts and Oil seeds contain:

(a) Vitamin E

(b) Vitamin D

(c) Vitamin B12

(d) Vitamin C

Answer: (a)

80. Condensed and dried milks are manufactured in commercial plants as per the legal standards prescribed by:

(a) FSSAI and BIS
(b) FICCI and BIS
(c) AGMARK and FSSAI
(d) FoSCoS and AGMARK

Answer: (a)

Discipline5

81. The quality of raw milk to be used should be judged with respect to which one of the following criteria.

(a) The quality criteria appropriate for traditional technology
(b) The geographical region from where milk has been sourced
(c) Relationship of milk quality with finished product quality
(d) Requirement of similar quality criteria for each end use

Answer: (c)

82. Percentage of bacteria which can be removed by Microfiltration technique is:

(a) 99.6 percent
(b) 85 percent
(c) 63 percent
(d) 23 percent

Answer: (a)

83. Skimmed milk is produced by separation of _____ from milk in dairy processing.

(a) Water
(b) Cream
(c) Casein
(d) Cholesterol

Answer: (b)

84. The maximum permitted fat content in skimmed milk powder is:

(a) 26 percent
(b) 5 percent
(c) 1.5 percent
(d) 1 percent

Answer: (c)

85. Which one of the following nutrients is lacking in the Meat Food Group?

(a) Phosphorous
(b) Iron
(c) Dietary Fibre
(d) B-Complex vitamins

Answer: (c)

86. Which of the following factor is not important for evaporation process?

(a) Concentration

(b) Foaming

(c) Heat insensitivity

(d) Scale formation

Answer: (c)

87. Based on the nature of the heat transfer surface, which of the following cannot be classified as evaporators?

(a) Tubular surfaces with natural or forced circulation

(b) Hyperbolic surfaces with artificial circulation

(c) Flat heating surfaces

(d) Stationary cylindrical surfaces with scraped surface evaporator

Answer: (b)

88. Which of the following is not a property of Falling film Evaporators?

(a) Less residence time

(b) More fouling problem

(c) More overall heat transfer coefficient

(d) Higher vacuum is possible

Answer: (b)

89. Which of the following is a technical function of ackaging?

(a) Communication

(b) Display

(c) Protection

(d) Promotion

Answer: (c)

90. The information on a food package conveys relevant data to consumers. What data does the package convey?

(a) Ethics of the production process

(b) The texture of the product

(c) How the product tastes

(d) Cooking instructions to be followed

Answer: (d)

91. Jelen (1985) maintains that primary packages should have certain characteristics to facilitate the sale of products. Which of the following is NOT one of them?

(a) Sanitary

(b) Non-toxic

(c) Lightweight

(d) Simple

Answer: (d)

92. Costing is the techniques and processes of ascertaining:

(a) costs
(b) Loss
(c) Profit
(d) Revenue

Answer: (a)

93. There are various advantages derived by the management from a good system of costing. Which of the following is one of them?

(a) Cost accounting helps in eliminating competition
(b) Cost accounting helps in estimating the future inventory
(c) Cost accounting helps in making monopolistic estimates of market
(d) Cost accounting aids price fixation

Answer: (d)

94. The subject OPERATIONS RESEARCH is a branch of _____.

(a) Mathematics
(b) Physics
(c) Literature
(d) Account keeping

Answer: (a)

95. Which of the following is NOT a property of linea[illegible]ogramming model?

(a) The relationship between variables and con[illegible]ints must be binary
(b) The model must have an objective f[illegible]
(c) The model must have structural constrain[illegible]
(d) The model must have non-negativity constraint

Answer: (a)

96. The teaching of extension education at undergraduate level at the College of Agriculture, Calcutta University started in the year:

(a) 1940
(b) 1950
(c) 1960
(d) 1970

Answer: (b)

97. In the word Extension, “ex” meaning “out”; and, “tensio” meaning “stretching” has its roots in which of the following languages?

(a) Latin
(b) German
(c) Sanskrit
(d) French

Answer: (a)

98. Which of the following is a feature of extension education?
    (a) The teacher starts with theory and works up to practical.
    (b) Students study subjects.
    (c) Students need to adapt themselves to the fixed curriculum offered.
    (d) Programmes are flexible and based on needs and expressed desires of people

    Answer: (d)

99. Where did Gandhiji establish the Sevagram Ashram?
    (a) Sunderban
    (b) Wardha
    (c) Marthandam
    (d) Kolkata

    Answer: (b)

100. When was Statistical Quality Control developed?
    (a) During World War I
    (b) During World War II
    (c) During the Cold War
    (d) During the French Revolution

    Answer: (b)

Discipline6

101. Which of the following parameters is taken into consideration while fixing Legal Standards?
    (a) Adulterants
    (b) Traditional technology
    (c) Bacteriological quality
    (d) Pricing strategy

    Answer: (c)

102. The term 'Biotechnology' was coined by:
    (a) Gregor Mendel
    (b) Karl Ereky
    (c) Franklyn Stahl
    (d) James Watson

    Answer: (b)

103. The central dogma of life was first visualized by Francis Crick during the year 1958 which refers to the fact that hereditary information normally travels in:
    (a) one direction only
    (b) Two directions only
    (c) Three directions only
    (d) Multi directions

    Answer: (a)

104. The thermal cycler also known as _____ machine or DNA amplifier is an equipment which is used for the amplification of a gene.

(a) WBC
(b) PCR
(c) RBC
(d) RNC

Answer: (b)

105. Which of the following enzymes is NOT important in the Dairy industry?

(a) Rennet
(b) Proteases
(c) Amylases
(d) Lipases

Answer: (c)

106. Starter cultures are _____ or fungal strains either pure or mixed, used to initiate a fermentation process.

(a) Protozoa
(b) Viral
(c) Bacterial
(d) Algal

Answer: (c)

107. Dairy processing unit operations mainly involve v processes. Select the odd one which does NOT form the part of the process?

(a) heating
(b) fermenting
(c) cooling
(d) separating

Answer: (b)

108. There are seven original SI units for basic physical quantities. Select the option that is not an SI base unit.

(a) Metre
(b) Litre
(c) Kilogram
(d) Candela

Answer: (b)

109. The measurement systems and the instruments may be classified based upon the functions they perform. Select the option that does NOT form a part of them?

(a) Indicating Function

(b) Recording Function

(c) Signal Processing

(d) Releasing Function

Answer: (d)

110. The conclusion of the Uruguay Round of Multilateral Trade Negotiations in Marrakech led to the establishment of the WTO on _____.

(a) 1 January 1995

(b) 1 January 1996

(c) 1 January 1997

(d) 1 January 1998

Answer: (a)

111. "The assembly of all planned and systematic actions necessary to provide adequate confidence that a product, process, or service will satisfy given quality requirements." The above is the definition of:

(a) AGMARK

(b) ISO

(c) TRADE MARK

(d) ISI MARK

Answer: (b)

112. Which of the following cannot be said to be key challenges for speedy and effective implementation of Food Safety and Standard Act 2006?

(a) Awareness creation

(b) Market Standardization

(c) Infrastructure creation

(d) Building research & development capacity

Answer: (b)

113. Which among the following is NOT a main function of financial management?

(a) Investment decision

(b) Raising funds

(c) Creation of physical assets

(d) Liquidity decisions

Answer: (c)

114. Which among the following is the goal of financial management?
(a) Profit Maximization
(b) Managing Board of Management
(c) Conducting market survey
(d) Keeping client Records
Answer: (a)

115. The Special journal or subsidiary books are of 7 types. Which of the following is one of them?
(a) Cash reconciliation
(b) Balance Sheet
(c) Profit and loss account
(d) Sales book
Answer: (d)

116. Which of the following is NOT a part of the concept of marketing?
(a) Production concept
(b) Consumer concept
(c) Selling concept
(d) Product concept
Answer: (b)

117. Which of the following is a Transactional function marketing?
(a) Transportation storage and physical handling goods
(b) Selecting a distribution channel
(c) Personal selling
(d) Product financing by providing capital.
Answer: (c)

118. The consumer buying process has four steps. Which of the following is one of them?
(a) Information search and evaluation
(b) Problem creation
(c) Finding the source of the produce
(d) Product manufacturing ethics
Answer: (a)

119. _____ is directed towards a relatively large, heterogeneous and anonymous audience.
(a) Group Communication
(b) Mass Communication
(c) Interpersonal Communication
(d) Organizational Communication
Answer: (b)

120. There is certain purpose of communication. Which of the following is one of them?

(a) To perform

(b) To self analyse

(c) To inform

(d) To analyse the society

Answer: (c)

Discipline7

123. The term 'unit operations' was established by Professor Arthur D Little of the Massachusetts Institute of Technology, in the year:

(a) 1913

(b) 1914

(c) 1915

(d) 1916

Answer: (c)

124. Kinematics is _____.

(a) the study of forces and the displacement of bodies, without addressing the cause of movement

(b) a study of motion and forces on a body which is in motion

(c) a branch of mechanics which deals with the st / of forces on a body which is at rest

(d) a study of the basic laws for the displacemer / a particle

Answer: (a)

126. The process that breaks down the interm ar bonds of starch molecules in the presence of water and heat, allowing the hydrogen bonding sites (the hydroxyl hydrogen and oxygen) to engage more water is called:

(a) Maillard reaction

(b) Caramelization

(c) Gelatinization of starch

(d) Retrogradation of starch

Answer: (c)

127. Dextrins are a group of _____ carbohydrates produced by the hydrolysis of starch.

(a) low-molecular-weight

(b) High-molecular-weight

(c) low-matter-weight

(d) high-matter-weight

Answer: (a)

128. Which one of the following vegetables is actually a Fungi?

(a) Beetroot

(b) Sea Lettuce

(c) Mushroom

(d) Onion

Answer: (c)

129. Yeasts may be viewed as being _____ fungi in contrast to molds.

(a) unicellular

(b) bicellular

(c) multicellular

(d) complex cell

Answer: (a)

130. Some microbes belonging to the Genus Candida can form:

(a) Chlamydospores

(b) Ascospores

(c) Conidiospores

(d) Sporangiospores

Answer: (a)

132. Food-borne molds are filamentous fungi that gro ı the form of _____ that spreads rapidly and may cover several inches of area in a very short riod.

(a) tangled mass

(b) Straight unbranched filaments

(c) Zig-zag lines

(d) Circular mass

Answer: (a)

133. Which of the following CANNOT be considered as an advantage of a good plant layout?

(a) It reduces the effort in normal material handling of a worker.

(b) It reduces cost of handling by direct labour and hence increases productivity per man hour

(c) It reduces indirect manufacturing cost by decreasing spoilage under difficult handling situation.

(d) It reduces the mechanical effort.

Answer: (d)

134. Which of the following is an intrinsic sensory attribute of food products?

(a) Color

(b) Price

(c) Origin

(d) Advertisement

Answer: (a)

135. A psychophysical method to estimate the absolute intensity of a stimulus or a categorical judgment based on an observer's experience is called:

(a) Affective Response
(b) Acceptance
(c) Absolute Judgment
(d) Acuity

Answer: (c)

136. Deciding in advance what is to be done, when it is to be done and how it is to be done is called:

(a) Staffing
(b) Planning
(c) Directing
(d) Controlling

Answer: (b)

137. In a manufacturing unit, the production manager must have sound knowledge of _____ and their characteristics.

(a) materials
(b) the market
(c) products
(d) labour available

Answer: (a)

138. In the 1940s, the central role of ATP in biologic ystems was described by:

(a) Sir Hans Adolf Krebs
(b) Eduard Buchner
(c) Fritz Albert Lipmann
(d) Watson and Crick

Answer: (c)

139. The number of carbon atoms present in the simple sugar triose is:

(a) 1
(b) 2
(c) 3
(d) 4

Answer: (c)

140. If the hydroxyl group on the penultimate carbon is on the right-hand side of the carbon chain when the aldehyde or ketone group is written at the top of the formula, it belongs to the D family and if on the left-hand side, it belongs to:

(a) L family
(b) R family
(c) K family
(d) A family

Answer: (a)

Discipline8

141. The furanose ring structure is formed by interaction of carbonyl carbon with the hydroxyl group attached to the _____ carbon.

(a) fourth carbon

(b) fifth carbon

(c) sixth carbon

(d) eighth carbon

Answer: (a)

142. Erwinia is a genus of the family Enterobacteriaceae bacteria containing mostly _____ pathogens.

(a) Plant

(b) Soil

(c) Water

(d) Animal

Answer: (a)

143. Which Gram-positive, catalase-positive bacterium commonly found in soil is also known as hay bacillus or grass bacillus.

(a) Bacillus cereus

(b) Bacillus subtilis

(c) Carnobacterium

(d) Corynebacterium

Answer: (b)

144. Which spp. forms septate mycelia with conidiophores and large brown conidia and causes brown to black rots of fruits, apples, and figs.

(a) Trichothecium

(b) Geotrichum

(c) Alternaria

(d) Rhizopus

Answer: (c)

145. Under favourable conditions, in a laboratory, a growing bacterial population _____ at regular intervals.

(a) Remains stagnant

(b) Doubles

(c) Triples

(d) Multiplies slowly

Answer: (b)

146. Which of the following is a class I additive?

(a) Benzoic acid and its salts

(b) Sulphurous acid and its salts

(c) Nisin

(d) Honey

Answer: (d)

147. In HPLC Method, Benzoic acid is extracted and separated by liquid chromatography (LC) on C18 column, detected by ultra violet absorbance at _____, and quantitated by standard calibration plot.

(a) 200 nm

(b) 230 nm

(c) 250 nm

(d) 270 nm

Answer: (b)

148. The use of salicylic acid as a preservative is:

(a) permitted

(b) not permitted

(c) permitted in special cases

(d) hazardous

Answer: (b)

149. Substances to be analysed by Gas Chromatography must be volatile and must be thermally stable below:

(a) 350 Degree C

(b) 375 Degree C

(c) 400 Degree C

(d) 450 Degree C

Answer: (a)

150. Some of the mycotoxins regularly analyzed in food samples include:

(a) Aflatoxin B1

(b) Aflatoxin C

(c) Aflatoxin D

(d) Aflatoxin K

Answer: (a)

Discipline9

151. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
He went to all the drugstores / but he did not got / the medicine.

(a) He went to all the drugstores

(b) but he did not got

(c) the medicine

(d) No error

Answer: (b)

152. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
All flights on this route / has been diverted / to Mumbai.

(a) All flights on this route

(b) has been diverted

(c) to Mumbai

(d) No error

Answer: (b)

153. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
The town / where I was born / had a big grain marke

(a) The town

(b) where I was born

(c) had a big grain market

(d) No error

Answer: (d)

154. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
There is / a bus stop / by the end of the road.

(a) There is

(b) a bus stop

(c) by the end of the road

(d) No error

Answer: (c)

155. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
The company is looking / for someone which has / an MBA degree.

(a) The company is looking

(b) for someone which has

(c) an MBA degree

(d) No error

Answer: (b)

164. Select the most appropriate option to fill in the blanks.
She paused at _____ gate for a while and then rang _____ door bell.

(a) a; the

(b) the; the

(c) the; a

(d) the; no word required

Answer: (b)

165. Select the most appropriate option to fill in the blank.
I will return your book as soon as I have finished _____ it.

(a) read

(b) to read

(c) reading

(d) reads

Answer: (c)

166. Select the most appropriate option to fill in the blank.
The elephant _____ leg got caught in a trap, trumpeted loudly.

(a) who

(b) which

(c) whose

(d) whom

Answer: (c)

167. Select the most appropriate option to fill in the blank.
_____ students have shown interest in playing chess.

(a) Any

(b) Many

(c) Much

(d) Little

Answer: (b)

168. Select the most appropriate option to fill in the blank.
Before giving him more money, find out _____ he wants it.

(a) what

(b) why

(c) how

(d) that

Answer: (b)

169. Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. the court has asked the government
B. and also questioned
C. to submit a report
D. why the case was not filed against the hospital

(a) ABCD

(b) ADCB

(c) ACBD

(d) ABDC

Answer: (c)

170. Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. has been busted
B. and selling them as used cars
C. from different areas of Delhi
D. a gang that was stealing cars

(a) DBCA

(b) DCBA

(c) DABC

(d) DBAC

Answer: (b)

Discipline10

171. Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. who was confirmed positive
B. LNJP Hospital has created a special ward
C. for isolating a 33 year old man
D. for the South African variant of the novel corona virus

(a) BCAD

(b) BDCA

(c) BADC

(d) BDAC

Answer: (a)

172. Parts of a sentence are given below in jumbled order. Arrange the parts in the correct order to form a meaningful sentence.
A. against symptomatic Covid-19 patients
B. the Oxford –AstraZeneca vaccine
C. according to the World Health Organisation
D. has an efficacy of 63.09 per cent

(a) ACDB
(b) CBDA
(c) BDCA
(d) CADB

Answer: (b)

173. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.
A. The first successful video calling was done in the 1930s.
B. People first got the idea of video calling in the late 1890s but they did not know how to do it.
C. A US company made a Television-Phone in 1955 on which people could see each other when they called.
D. But the video was very bad.

(a) ABCD
(b) BADC
(c) BCDA
(d) CDBA

Answer: (b)

174. Sentences of a paragraph are given b[illegible]in j[illegible]oled order. Arrange the sentences in the correct order to form a meaningful and cohere[illegible]agraph.
A. Did you know that it is possible to build a boat entirely from cardboard?
B. They used around 300 old boxes that they found in bins near their workshop and bits of wood to clamp on a little outboard – almost everything was from waste packaging, including their flag which they made from bubble wrap.
C. Over ten days, two savvy recyclers from England named Harry and Charlie turned their dream of a cardboard houseboat into a reality.
D. They successfully launched the boat into the Thames and sailed down the river to London to launch a design festival.

(a) CDBA
(b) BDCA
(c) ABDC
(d) ACBD

Answer: (d)

175. Select the most appropriate synonym of the given word.
Agile

(a) Quiet
(b) Energetic
(c) Angry
(d) Stiff

Answer: (b)

176. Select the most appropriate ANTONYM of the given word.
Irksome

(a) Pleasing
(b) Tireless
(c) Annoying
(d) Forgiving

Answer: (a)

177. Select the most appropriate ANTONYM of the given word.
Scrap

(a) Abandon
(b) Discard
(c) Drop
(d) Reinstate

Answer: (d)

178. Select the most appropriate synonym of the given word.
Impudent

(a) Rude
(b) Polite
(c) Modest
(d) Careful

Answer: (a)

179. Select the most appropriate synonym of the given word.
Endorse

(a) Approve
(b) Impose
(c) Award
(d) Endure

Answer: (a)

180. Select the most appropriate ANTONYM of the given word.
Curtail

(a) Whisper
(b) Lengthen
(c) Restrain
(d) Express

Answer: (b)

181. Select the INCORRECTLY spelt word.

(a) Media
(b) Meditate
(c) Mediam
(d) Meddle

Answer: (c)

182. Select the most appropriate phrase to fill in the blank.
It was difficult for the villagers to _____ the fire by themselves.

(a) put down
(b) put out
(c) put up
(d) put off

Answer: (b)

183. Select the most appropriate phrase to fill in the blank.
The police had _____ road-blocks on the national highway.

(a) set in
(b) set out
(c) set about
(d) set up

Answer: (d)

184. Select the most appropriate phrase to fill in the blank.
I would not like to _____ the details of this issue.

(a) go forth
(b) go into
(c) go down with
(d) go out of

Answer: (b)

185. Select the most appropriate meaning of the given idiom.
To get wind of

(a) To learn something about a secret
(b) To be clear about something
(c) To enjoy a nice weather
(d) To gain something unfairly

Answer: (a)

186. Select the most appropriate meaning of the given idiom.
Head and shoulders above

(a) To be odd
(b) To be far superior
(c) To be much taller
(d) To be extremely jealous

Answer: (b)

187. Select the option that can be used as a one-word substitute for the given group of words.
A group of puppies

(a) Gang
(b) Herd
(c) Pack
(d) Litter

Answer: (d)

188. Select the option that can be used as a one-word substitute for the given group of words.
A place where sheep are kept

(a) Den
(b) Coop
(c) Kennel
(d) Pen

Answer: (d)

189. Select the option that can be used as a one-word substitute for the given group of words.Select the most appropriate word for the given group of words.
The sound made by crickets

(a) Croak
(b) Chirp
(c) Caw
(d) Cluck

Answer: (b)

190. Select the INCORRECTLY spelt word.

(a) Scrupolous

(b) Populous

(c) Numerous

(d) Humorous

Answer: (a)

Discipline11

191. Select the INCORRECTLY spelt word.

(a) Furious

(b) Anxious

(c) Vigourious

(d) Precious

Answer: (c)

192. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don’t find any error, mark ‘No error’ as your answer.
Don't promise anything / if you are hundred per cent / sure of it.

(a) Don't promise anything

(b) if you are hundred per cent

(c) sure of it

(d) No error

Answer: (b)

193. Parts of the given sentence have been given as options. One of them contains a grammatical error. Select the option that has the error.
The plumber has just finished to repair the leaking tap.

(a) The plumber

(b) has just finished

(c) to repair

(d) the leaking tap

Answer: (c)

194. Select the option that can be used as a one-word substitute for the given group of words.
To treat food to prevent its decomposition

(a) Protect

(b) Prepare

(c) Preserve

(d) Pretend

Answer: (c)

195. Select the option that can be used as a one-word substitute for the given group of words.
An imaginary line about which a body rotates

(a) Axis
(b) Orbit
(c) Equator
(d) Eclipse

Answer: (a)

197. On which of the following findings did the archaeologists reach the conclusion that the findings belonged to 6th-7th century BCE?

(a) Charred food grains
(b) Big sized heavy bricks
(c) Potsherds of polished black ware
(d) Animal bones

Answer: (c)

198. Who discovered the ancient remains of the settlement first at the UP government highway project site?

(a) A professor from the University of Delhi
(b) A student form Lucknow University
(c) Research scholars from the University of Delhi
(d) An archaeologist from Archaeological Survey of India (ASI)

Answer: (b)

199. Find the correct order of events.
A. Preliminary investigation by researchers from Delhi University B. Discovery of ancient remains by a student of Lucknow University C. Involvement of Archaeological Survey of India (ASI) D. Digging of land for making a highway
E. Reaching the conclusion that the remains belonged to 6th-7th century BCE

(a) DBACE
(b) DABEC
(c) BADCE
(d) ABCDE

Answer: (a)

Answer key

Answer key from the Delhi Subordinate Services Selection Board's official answer key for this sitting. "—" means the key gave none.

Discipline1

1	**(d)**	2	**(b)**	3	**(a)**	4	**(c)**	5	**(a)**	6	**(c)**
7	**(b)**	8	**(a)**	9	**(c)**	10	**(d)**	11	**(d)**	12	**(d)**
13	**(a)**	14	**(b)**	15	**(d)**	16	**(a)**	17	**(a)**	18	**(c)**
19	**(a)**	20	**(d)**								

Discipline2

21	**(d)**	22	**(c)**	23	**(c)**	24	**(a)**	25	**(c)**	26	**(b)**
28	**(d)**	29	**(b)**	30	**(c)**	31	**(c)**	32	**(b)**	33	**(b)**
34	**(a)**	35	**(d)**	36	**(c)**	37	**(a)**	38	**(a)**	39	**(d)**
40	**(b)**										

Discipline3

41	**(b)**	42	**(a)**	43	**(a)**	44	**(b)**	47	**(a)**	49	**(a)**
50	**(a)**	52	**(c)**	53	**(b)**	54	**(c)**	57	**(d)**	58	**(b)**
59	**(d)**	60	**(a)**								

Discipline4

61	**(b)**	62	**(a)**	63	**(c)**	64	**(a)**	65	**(a)**	66	**(d)**
67	**(a)**	68	**(c)**	69	**(a)**	70	**(b)**	72	**(c)**	73	**(a)**
74	**(a)**	75	**(d)**	77	**(c)**	78	**(a)**	80	**(a)**		

Discipline5

81	**(c)**	82	**(a)**	83	**(b)**	84	**(c)**	85	**(c)**	86	**(c)**
87	**(b)**	88	**(b)**	89	**(c)**	90	**(d)**	91	**(d)**	92	**(a)**
93	**(d)**	94	**(a)**	95	**(a)**	96	**(b)**	97	**(a)**	98	**(d)**
99	**(b)**	100	**(b)**								

Discipline6

101	**(c)**	102	**(b)**	103	**(a)**	104	**(b)**	105	**(c)**	106	**(c)**
107	**(b)**	108	**(b)**	109	**(d)**	110	**(a)**	111	**(b)**	112	**(b)**
113	**(c)**	114	**(a)**	115	**(d)**	116	**(b)**	117	**(c)**	118	**(a)**
119	**(b)**	120	**(c)**								

Discipline7

123	**(c)**	124	**(a)**	126	**(c)**	127	**(a)**	128	**(c)**	129	**(a)**
130	**(a)**	132	**(a)**	133	**(d)**	134	**(a)**	135	**(c)**	136	**(b)**
137	**(a)**	138	**(c)**	139	**(c)**	140	**(a)**				

Discipline8

141	**(a)**	142	**(a)**	143	**(b)**	144	**(c)**	145	**(b)**	146	**(d)**
147	**(b)**	148	**(b)**	149	**(a)**	150	**(a)**				

Discipline9

151	**(b)**	152	**(b)**	153	**(d)**	154	**(c)**	155	**(b)**	164	**(b)**
165	**(c)**	166	**(c)**	167	**(b)**	168	**(b)**	169	**(c)**	170	**(b)**

Discipline10

171	**(a)**	172	**(b)**	173	**(b)**	174	**(d)**	175	**(b)**	176	**(a)**
177	**(d)**	178	**(a)**	179	**(a)**	180	**(b)**	181	**(c)**	182	**(b)**
183	**(d)**	184	**(b)**	185	**(a)**	186	**(b)**	187	**(d)**	188	**(d)**
189	**(b)**	190	**(a)**								

Discipline11

191	**(c)**	192	**(b)**	193	**(c)**	194	**(c)**	195	**(a)**	197	**(c)**
198	**(b)**	199	**(a)**								