PART III

13 - FOOD TECHNOLOGY

(Answer ALL questions)

| | (Alls | wer ALL questions) |
|-----|---|---|
| 41. | Tetany is caused by deficiency of a. Zinc b. Selenium c. Copper d. Calcium | 46. What is the most important fatty acid for development of brain and function? a. Linoleic acid b. Stearic acids c. Palmitic acid d. Docosahexaenoic acid |
| 42. | Which of the followings are considere micronutrients? a. Vitamins and water b. Mineral and protein c. Vitamins and mineral d. Protein and lipids | 47. The method of evaluating the quality of a protein is a. PDCAAS b. PDDAC c. PAADS d. PCAAS |
| 43. | Excess intake of food rich in phytic reduces absorption of a. Folic acid b. Protein c. Vitamin D d. Minerals | 48. Hemicellulose is an example for a. Low calorie sweetener b. Artificial sweetener c. Homopolysaccharide d. Heteropolysaccharide |
| 44. | Chelating agents are used to reenzymatic browning of food because reduces availability of the following cofacta. Iron b. Copper c. Zinc d. Calcium | andication of stands in food announceding |
| 45. | Which one of the following lipid molecexhibit emulsification property? a. Lecithin b. Unsaturated fatty acids | ules 50. Low protein diet is recommended for people with following condition a. Marasmus b. Immunodeficiency |



c.

d.

Steroids

Sphingosine

Renal failure

Kwashiorkor

c.

d.

- 51. Which one of the following is not true about the naturally occurring colours?
 - a. Mostly stable at extreme condition during food processing
 - b. It can be isolated from plants
 - c. It can exhibit antioxidant activity
 - d. Also called as pigment
- 52. Which of the following methods is used to measure the water content of food?
 - a. Formol titration
 - b. Zak's method
 - c. Polarimetry
 - d. Karl Fischer titration
- 53. Which of the following is processing contaminants?
 - a. Mycotoxins
 - b. Aflatoxins
 - c. Nitrosamines
 - d. Scombrotoxin
- 54. Which of the following is a Intrinsic Parameters that affects microbial Growth?
 - a. Temperature
 - b. Water activity
 - c. Time
 - d. Atmospheric conditions
- 55. Proximate analysis of major components in food generally does not include
 - a. Amino acid composition
 - b. Fat
 - c. Carbohydrates
 - d. Protein
- 56. What is the main type of micro-organism responsible for food poisoning?
 - a. Bacteria
 - b. Mould
 - c. Virus
 - d. Parasite

- 57. Which of the following is not a major parameter in Sensory food evaluation?
 - a. Colour
 - b. Length of the fibre
 - c. Texture
 - d. Smell and taste
- 58. Which of the following is mandatory before HACCP certification?
 - a. GMP
 - b. Risk assessment
 - c. ISO 9000
 - d. ISO 22000
- 59. Food business including small scale or cottage or Petty food businesses whose annual turnover does not exceed Rs 12 lakhs by default falls under the purview of
 - a. Central Licensing Authority
 - b. State Licensing Authority
 - c. Registration Authority
 - d. National Certification Authority
- 60. Which of the following is right about Food Recall?
 - a. Call from the food industry to the consumers to visit the industry
 - b. Recalling the production methods involved in a food industry by the production manager
 - c. Action taken by a manufacturer or distributor to protect the public from products that may cause health problems
 - d. Action taken to segregate the produced food inside the industry
- 61. CCP in HACCP stands for
 - a. Cross contact points
 - b. Critical control points
 - c. Critical contact points
 - d. Critical certification points



- 62. The main objective of ISO 22000 is to
 - a. Increase the employee productivity
 - b. Increase the employee morale
 - c. To certify the plant
 - d. To establish a food safety management system
- 63. Which is the main index organism to achieve complete safety of milk in pasteurization of milk?
 - a. Mycobacterium tuberculosis
 - b. Staphylococcus Aureus
 - c. E. Coli.
 - d. Listeria Monocytogenes
- 64. "Date of manufacture" indicates the
 - a. Date on which the food is procured
 - b. Date on which the food becomes the product as described
 - c. Date on which the food is placed in container in which it will be ultimately sold
 - d. Date on which it is packed
- 65. A standard practice ————, which restores nutrients that were lost in processing to near original levels.
 - a. Ergonomics
 - b. Functional
 - c. Fortification
 - d. Enrichment
- 66. What is produced in a calf's stomach to help curdle milk and used in the production of cheese?
 - a. chymosin
 - b. bacteriophage
 - c. antibiotic
 - d. pasteurization

- 67. Fruit juices are deaerated before allowed in to the pasteuriser is done in order to
 - a. Reduce fouling of pasteuriser
 - b. Reduce oxidation deterioration
 - c. Increase the rate of heat transfer
 - d. Decrease the rate of heat transfer
- 68. Which of the following foods cannot be treated at high pressure?
 - a. Bread
 - b. Meat
 - c. Fruit juice
 - d. Jam
- 69. Which of the following food preservation methods are suitable to reduce the loss of nutrients when preparing fruits and vegetables?
 - a. Freezing
 - b. Using preservatives
 - c. Drying and blanching
 - d. All of the above
- 70. In freeze drying, removal of moisture is due to
 - a. Boiling
 - b. Condensation
 - c. Sublimation
 - d. Pressure reduction
- 71. The water activity of the food product at the end of constant drying rate is
 - a. Less than 1
 - b. Remains constant at 1
 - c. Equals to zero
 - d. Drops below 2



- 72. In high fructose corn syrup production, the enzyme used for the conversion of glucose to fructose is
 - a. Isomerase
 - b. Invertase
 - c. Amylase
 - d. Epimerase
- 73. Unplanned crystallization of sugar in a confectioneries is called
 - a. Winnowing
 - b. Panning
 - c. Fudging
 - d. Engrossing
- 74. What is the form of Iodine in Iodized Salt?
 - a. I_2
 - b. KIO₃
 - c. KI
 - d. NaI
- 75. Tocopherol is an example of
 - a. Anticaking agent
 - b. Flavouring agent
 - c. Antioxidant
 - d. None of the above
- 76. At which temperature frozen storage is generally operated?
 - a. −0°C
 - b. −18°C
 - c. -50°C
 - d. -60°C
- 77. A solution is made by dissolving 1 kilo mole of solute in 2000 kg of solvent. The molality of the solution is
 - a. 2
 - b. 1
 - c. 0.5
 - d. 1.5

- 78. A very dilute solution is prepared by dissolving x_1 mole of solute in x_2 mole of a solvent. The mole fraction of solute is approximately equal to
 - a. x_1 / x_2
 - b. x_2 / x_1
 - c. $1-(x_1/x_2)$
 - d. $1/x_2$
- 79. The increase in the temperature of the aqueous solution will result in decrease of its
 - a. weight % of the solute
 - b. mole fraction of the solute
 - c. molarity
 - d. molality
- 80. What percent of Ca by weight is present in CaCO₃?
 - a. 40
 - b. 48
 - c. 96
 - d. 12
- 81. What is the equivalent weight of Na_2CO_3 in the reaction, represented by

Na₂CO₃+HCl→NaHCO₃+NaCl?

- a. 53
- b. 5.3
- c. 106
- d. 10.6
- 82. Multistage compressors are used in industry, because they
 - a. reduce the cost of compressor
 - b. reduce the size requirement
 - c. resemble closely to isothermal compression
 - d. are easy to control



- 83. At which of the following conditions it is easy to control.Net positive suction head (NPSH) of a centrifugal pump?
 - a. greater than the vapour pressure of the liquid
 - b. less than the vapour pressure of the liquid
 - c. equal to the vapour pressure of the liquid
 - d. less than barometric pressure
- 84. Assuming flow to be laminar, if the diameter of the pipe is halved, then the pressure drop will
 - a. increase
 - b. decrease
 - c. remain same
 - d. be quadrupled
- 85. Which type of pump is used for the transfer of solution of thick slurry?
 - a. reciprocating
 - b. gear
 - c. diaphragm
 - d. centrifugal
- 86. Cavitation in a pump creates so many undesirable effects. Out of the following, which is not an undesirable effect created by cavitation?
 - a. Decrease in effect
 - b. Increase in thrust
 - c. Develops noise
 - d. Develops high pressure
- 87. How the head loss in turbulent flow in a pipe varies?
 - a. directly as the velocity
 - b. inversely as the square of the velocity
 - c. approximately as the square of the velocity
 - d. inversely as the square of the diameter

- 88. Power required by a centrifugal pump is proportional to (Where, D = diameter, N = rpm)
 - a. N^2D^3
 - b. ND^2
 - c. N^2D
 - d. N^3D
- 89. Apples are wrapped in waxed paper to
 - a. Prevent sunlight for changing its colour
 - b. Prevent aerobic respiration
 - c. Prevent injury
 - d. To make it attractive
- 90. Which of the following is a unique example of emulsion technology?
 - a. Butter making
 - b. Ice cream preparation
 - c. Cream separation
 - d. Chips making
- 91. In which of the following different plastics are combined to get certain desirable properties?
 - a. Monomers
 - b. Plasticizers
 - c. Homopolymer
 - d. Copolymer
- 92. Which of the following is a secondary refrigerant?
 - a. NH₃
 - b. H₂O
 - CO_2
 - d. R₁₂



| 93. | kept filled with liquid refrigerant? a. Plate | | 97. | juices can be concentrated? a. Long tube | | |
|-----|--|--|------|---|--|--|
| | b. | Fin and tube | | b. | High pressure | |
| | c. | Flooded | | c. | Falling film | |
| | d. | Dry expansion | | d. | Crude filter paper | |
| 94. | In ball mill, at which speed there will be | | 98. | Heat sensitive material's with high heat of | | |
| | centrifugation? | | | vapo | rization may be economically separated | |
| | a. | Operating | | using | 7 | |
| | b. | Normal | | a. | Liquid extraction | |
| | c. | Critical | | b. | Distillation | |
| | d. | Below normal | | c. | Evaporation | |
| | | | | d. | Adsorption | |
| 95. | If added sugar appear first or second on food | | | | | |
| | label list for a packaged food, it means | | 99. | Verti | Vertical screw mixers are used for mixing of | |
| | a. | List is in alphabetical | | a. | High viscous liquids | |
| | b. | Its high in sugar | | b. | Low viscous liquids | |
| | c. | Its low in sugar | | c. | Moderate viscous fluids | |
| | d. | Position on the list is arbitrary | | d. | Dry solids | |
| 96. | Ang | le formed by pouring flour as heap on flat | 100. | Zero | energy cool chambers work on the | |
| | surface is known as | | | princ | ciple of ——— cooling. | |
| | a. | Contact angle | | a. | Hydro | |
| | b. | Angle of repose | | b. | Evaporative | |
| | c. | Angle of rip | | c. | Vacuum | |
| | d. | Critical angle | | d. | Room | |
| | | | | | | |
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