

F50

Coll: D

214/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Identify the correct group of stimulating constituents present in tea :
  - (A) Theobromine, triphylline, catechol
  - (B) Caffein, tricantenol, trimethylamine
  - (C) Theonitrile, caffeicol, theophylline
  - (D) Caffeine, theobromine, theophylline
  
2. Acceptable daily intake level of additives is derived from following :
  - (A) No observed adverse effect level of compound and uncertainty factor
  - (B) Level at which toxicity may not occur in humans
  - (C) Levels likely to be used in foods
  - (D) Chemical nature of the compound
  
3. Identify the cluster of essential fatty acids for humans from the following :
  - (A) Myristic, arachidonic and capric acids
  - (B) Linolenic, linoleic and arachidonic acid
  - (C) Stearic, malic and acetic acid
  - (D) Linolenic, stearic and cholic acid
  
4. Aseptic packaging refers to :
  - (A) Use of sterile packaging containers
  - (B) Heating the food to make it sterile and then pack
  - (C) Packaging sterile food in sterile atmosphere in sterile packaging
  - (D) Using ultra high temperature for processing
  
5. Consumption of raw soybeans can be harmful to health because of the presence of following anti-nutritional factor :
  - (A) Phytic acid
  - (B) Tannins
  - (C) Oxalates
  - (D) Trypsin inhibitor
  
6. In a standard fruit jam preparation the content of total soluble solids should not be less than :
  - (A) 68% W/W
  - (B) 45% W/W
  - (C) 65% W/W
  - (D) 70% W/W

7. The safe level of irradiation for foods, which presents no toxicological hazard is :
- (A) 5.0 kGy                      ~~(B) 10.0 kGy~~  
(C) 7.0 kGy                      ~~(D) 25.0 kGy~~
8. Subjecting rice to higher degree of polishing is associated with following :
- (A) Better nutritional density and easy digestibility  
(B) Better glycemic index and suitability for diabetics  
 (C) Lowered nutritional and better cooking characteristics  
(D) Higher bioavailable nutrients and lowered sensory quality
9. The browning occurring in cut apples on aeration is due to the presence of :
- (A) Polyphenolases  
(B) Oxidoreductases  
(C) Polymeric oxidases  
(D) Polyhydrogenases
10. FSSAI stands for :
- (A) Fire Safety and Security Association of India  
 (B) Food Safety and Standards Authority of India  
(C) Fire Safety and Standards Arrangements Incorporation  
(D) Food Safety and Security Association of India
11. The bacterial culture used to prepare Yoghurt contains *Streptococcus thermophilus* and
- (A) *Lactobacillus bulgaricus*                      (B) *Yersinia enterocolitica*  
(C) *Alcaligenes viscolactis*                      (D) *Escherichia coli*
12. Which among the following is used to sterilize milk cans in dairies?
- (A) Steam                       (B) Iodophore solution  
(C) Autoclaving                      (D) All the above
13. The base material for preparing Shrikhand is :
- (A) Chakka                      (B) Channa  
(C) Curd                      (D) Cheese
14. 'Outlines of Dairy Technology' is written by :
- (A) Jagdish Prasad                      (B) N.S.R. Shastry  
 (C) Sukumar De                      (D) Tufail Ahamed

15. The latest indicator organism for proper pasteurisation is :
- (A)  *Coxiella burnetti* (B) *Mycobacterium tuberculosis*  
 (C) *Bacillus anthracis* (D) FMD virus
16. Rasagolla is prepared using :
- (A) Paneer (B)  Channa  
 (C) Khoa (D) Condensed Milk
17. Aseptic packaging is used after which among the following processing method?
- (A) Pasteurisation (B)  UHT Pasteurisation  
 (C) Freezing (D) Drying
18. The water percentage of cow milk is approximately :
- (A) ~~80%~~ (B) 90%  
 (C)  87% (D) 50%
19. Which among the following practice reduces the occurrence of Mastitis?
- (A) Feeding concentrate (B) Urea molasses lick  
 (C)  Teat dipping (D) Automatic water bowl
20. Which among the following is used to test fat in milk?
- (A) Lactometer (B) ~~Anemometer~~  
 (C) CRO (D)  Milkotester
21. The dressing percentage for pigs is approximately :
- (A) ~~53%~~ (B) 65%  
 (C)  75% (D) 88%
22. \_\_\_\_\_ is used for testing the effectiveness of bleeding of carcass.
- (A) Sodium nitrate (B) ~~Malachite green~~  
 (C) Sodium ascorbate (D)  All of the above
23. The larval nematode worm seen in striated muscle of pigs infecting human beings after ingestion of such infected pork is :
- (A)  *Trichinella spiralis* (B) *Toxoplasma gondii*  
 (C) *Tichuris trichiura* (D) *Taenia solium*

24. Pick out the ~~WRONG~~ statement :
- (A) The first transgenic cow, "Rosie", produced human protein-enriched milk
- (B) Green rot in eggs is mainly caused by *Pseudomonas fluorescens*
- (C) Bloom is the term used for preservation of meat using salt
- (D) Pork and poultry meat are more susceptible to rancidity as they are richer in unsaturated fatty acids than other meats
25. The pink colour characteristic of cured meat is due to :
- (A) Myoglobin
- (B) ~~Nitrosyl myoglobin~~
- (C) Haemoglobin
- (D) Nitrosyl haemochromogen
26. Natural casing for sausage preparation is derived from :
- (A) Intestinal submucosa
- (B) Collagen
- (C) Intestinal mucosa
- (D) Cellulose
27. PSE condition of pork is caused due to :
- (A) Short term pre-slaughter stress
- (B) ~~Chronic stress~~
- (C) Rapid decline of muscle pH
- (D) Both (A) and (C)
28. The vitamin which is ABSENT in chicken egg :
- (A) Vitamin C
- (B) Vitamin B<sub>12</sub>
- (C) Vitamin A
- (D) Vitamin E
29. The bacterium known as "terror of the deep" due to the sea food poisoning it causes with the highest fatality rate of any food borne bacterium :
- (A) *Salmonella enteritidis*
- (B) *Vibrio vulnificus*
- (C) *Vibrio parahaemolyticus*
- (D) *Clostridium botulinum*
30. The stunning method recommended for slaughter of adult cattle :
- (A) Electric stunning
- (B) Penetrative captive bolt pistol
- (C) Carbon dioxide gas stunning
- (D) All of the above
31. Primary Evidence under Sec.61 of Indian Evidence Act means :
- (A) Certified copies of documents
- (B) ~~Photostat~~ copies attested by the Gazetted Officer
- (C) Original documents produced before the Court
- (D) None of these

32. Unlicensed sale of food shall be punishable with :
- (A) Imprisonment upto 6 months  
 (B) Imprisonment upto 6 months and fine upto Rs.5 lakhs  
 (C) Fine upto Rs. 2 lakhs  
 (D) Imprisonment upto 1 year and fine upto Rs.10 lakhs
33. Death caused due to consumption of any food purchased from a seller, is liable to be compensated with :
- (A) Not less than Rs. 5 lakhs (B) Not less than Rs. 10 lakhs  
 (C) Not exceeding Rs. 3 lakhs (D) Rs.7 lakhs
34. The maximum penalty to be imposed on a person who sells any food which is not in compliance with the provisions / regulations of Food Safety Act, is :
- (A) Rs.10 lakhs (B) Not Exceeding Rs.2 lakhs  
 (C) Not Exceeding Rs.5 lakhs (D) Rs.25,000
35. In a complaint against several accused, if the complainant withdraws his complaint against one accused, the Magistrate can :
- (A) Convict that particular accused  
 (B) Acquit all the accused  
 (C) Acquit the particular accused against whom the complaint is so withdrawn  
 (D) Convict all the accused
36. An application for bail under Section 438 Cr.P.C can be filed before :
- (A) Any Court  
 (B) First Class Magistrate Court/Metropolitan Court  
 (C) Trial Court  
 (D) High Court or Court of Session
37. In a trial before a Court of Session, prosecution shall be conducted by :
- (A) Magistrate  (B) Public Prosecutor  
 (C) Amicus Curie (D) Advocate General
38. Private Complaint can be filed before the Court under Section \_\_\_\_\_ of Cr.P.C.
- (A) 190 (B) 191  
 (C) 195 (D) 313

39. Examination of Complainant by the Magistrate taking cognizance of an offence is not required, if:

- (A) He is a public servant  
(B) He is a private complainant  
(C) He is a doctor  
(D) A Court has made the complaint

*Exception -> Though the public servant (option A) comes, it is applicable only if he acts official duty.*

40. Admissibility of documents procured by illegal means under Indian Evidence Act is:

- (A) Admissible  
(B) Not Admissible  
(C) Admissible if relevant and its genuineness proved  
(D) None of these

41. Dietary fibre represents the following nutrient group:

- (A) Lipids  
(B) Carbohydrates  
(C) Proteins  
(D) None of these

42. The one which is not used as a clarifier:

- (A) Phosphoric acid  
(B) Lead nitrate  
(C) Phosphotungstic acid  
(D) Lead acetate

43. Ionisation technique not used in mass spectrometry:

- (A) Fast atom bombardment  
(B) Field desorption  
(C) Laser desorption  
(D) Radiation

44. Inhomogeneity of flow velocities and path lengths around packing particles in column chromatography leads to:

- (A) Partition  
(B) Retention  
(C) Eddy diffusion  
(D) None of these

45. Energy yield per unit weight of food is known as:

- (A) Calorific value  
(B) Energy density  
(C) Both (A) and (B)  
(D) None of these

46. R.Q. of fats is less than carbohydrates because:

- (A) Fats have lesser oxygen content  
(B) Carbohydrates have lesser oxygen content  
(C) Fats have higher oxygen content  
(D) None of these

*Confused!*

*Can't remember exact year of collection. I remember it was...*

47. Specific Dynamic Action refers to :
- (A) Energy required for physical activity  
 (B) Increased heat production following intake of food  
 (C) Extra energy for exercising  
 (D) Energy requirement by a person for dynamic activities
48. \_\_\_\_\_ is an essential amino acid.
- (A) Aspartic acid  
 (B) Glutamic acid  
 (C) Proline  
 (D) Threonine →
49. Which of the following has the lowest iodine number?
- (A) Soy bean oil  
 (B) Cotton seed oil  
 (C) Beef fat  
 (D) Corn oil
50. Scurvy can be cured by the administration of :
- (A) Folic acid  
 (B) Glutamic acid  
 (C) Fumaric acid  
 (D) Ascorbic acid
51. Which of the following is a semi perishable food?
- (A) Fish  
 (B) Egg  
 (C) Milk  
 (D) Potato
52. Temperature used in HTST pasteurization is :
- (A) 161°F  
 (B) 145°F  
 (C) 154°F  
 (D) 175°F
53. Which of the following is not involved in the fermentation of Sauerkraut?
- (A) *Leuconostoc mesenteroides*  
 (B) *Lactobacillus plantarum*  
 (C) *Leuconostoc delbrueckii*  
 (D) *Streptococcus faecalis*
54. Enzyme used for the clarification of fruit juice :
- (A) Invertase  
 (B) Pectinase  
 (C) Protease  
 (D) Lipase
55. The protective agent used in cryopreservation of bacterial cells :
- (A) EDTA  
 (B) DMSO  
 (C) SDS  
 (D) NADP

98 x 1  
12698 x 73 74  
126

98°F

56. Staining of specimens using uranyl acetate has been used in :
- (A) Atomic force microscope  
 (B) Confocal Scanning Laser Microscope  
 (C) Transmission Electron Microscope  
 (D) Phase Contrast Microscope
57. Which of the following is a type of food intoxication?
- (A) Botulism  
 (B) Salmonellosis  
 (C) Cholera  
 (D) Gastroenteritis
58. *Ashbya gossypii* is used commercially for the production of :
- (A) L-glutamic acid  
 (B) Invertase  
 (C) Cyanocobalamin  
 (D) Riboflavin
59. Enrichment of lakes due to high concentration of organic nutrients :
- (A) Humus formation  
 (B) Biomagnification  
 (C) Eutrophication  
 (D) Nitrosification
60. The sanitizer commonly used for treatment of drinking water :
- (A) Sodium nitrate  
 (B) Sodium hypochlorite  
 (C) Sodium sorbate  
 (D) Sodium metabisulphite
61. Most widely used chronic poison in rodent control :
- (A) Thallium sulphate  
 (B) Barium carbonate  
 (C) Warfarin  
 (D) Zinc phosphide
62. *Callosobruchus chinensis* is a storage pest of :
- (A) Wheat  
 (B) Rice  
 (C) Fruits  
 (D) Pulses
63. Commercially the most viable mushroom world over is :
- (A) Button mushroom  
 (B) Oyster mushroom  
 (C) Paddy straw mushroom  
 (D) Milky mushroom
64. The best disinfectant for the empty store is the use of :
- (A) DDVP  
 (B) Aluminium phosphide  
 (C) Malathion  
 (D) Gamma-BHC



65. Tapping and aroma are maturity indices of :  
 (A) Jack fruit (B) Water melon  
 (C) Tomato (D) Mango
66. Evaporative cooling system saturated with water is used in :  
 (A) Onion storage  (B) Zero energy cool chamber  
 (C) Cool stores (D) Irradiation
67. "W" and "O" emulsions are used in :  
 (A) Storage of fruits and vegetables (B) Field spray of fruits and vegetables  
 (C) Waxing of fruits and vegetables  (D) None of the above
68. The most destructive of all field rats is :  
 (A) Mus booduga (B) Rattus rattus  
 (C) Rattus norvegicus  (D) Bandicota bengalensis
69. Aflatoxin is the mycotoxin produced by :  
 (A) Aspergillus flavus (B) Fusarium spp.  
 (C) Claviceps purpurea (D) Aspergillus clavatus
70. Khapra beetle is a serious pest of stored :  
 (A) Rice  (B) Wheat  
 (C) Pulses (D) Fruits
71. Who was the first General Secretary of Nair Service Society?  
 (A) C. Kesavan (B) K. Kelappan  
 (C) T.K. Madhavan  (D) Mannathu Padmanabhan
72. Who was known as the father of Local self Government in India?  
 (A) Lord Rippon (B) Lord Litton  
 (C) Lord Minto (D) Lord Dalhousie
73. Who was the founder of Indian National Congress?  
 (A) Lord Duffrin  (B) A.O. Hume  
 (C) Dadabai Naoroji (D) Gandhiji
74. Who was known as "Kerala Gandhi"?  
 (A) A.K. Gopalan (B) M.C. Joseph  
 (C) K. Kelappan (D) P.K. Chathan Master

75. Temple Entry Proclamation in Travancore issued on :
- (A) 12 Nov. 1936 (B) 24 Nov. 1936  
(C) 12 Jan. 1936 (D) 24 Jan. 1936
76. Which of the following story was written by Lalithambika Antharjanam?
- (A) Madra (B) Thamarathoni  
(C) Gosayi Paranja Katha (D) Marappavakal
77. Revolt of 1857 was started at :
- (A) Delhi (B) Meerut  
(C) Nepal (D) Audh
78. "Kanneerum Kinavum" was the autobiography of :
- (A) E.V. Krishnapillai (B) G. Sankarakurup  
(C) V.T. Bhattathirippadu (D) Changampuzha
79. Who was the founder of Samathva Samagam?
- (A) Ayyan Kali (B) Sree Narayana Guru  
(C) Dr. Palpu (D) Vaikunda Swamikal
80. Leader of Bardoli Sathyagraha :
- (A) Nehru (B) Sardar Vallabhai Patel  
(C) Gandhiji (D) Dr. Ambedkar
81. Which is the odd one in the following?
- (A) 63 (B) 28  
(C) 124 (D) 215
82. If the surface area of a cube is  $294 \text{ cm}^2$ , what is the volume of the cube?
- (A) 216 (B) 176  
(C) 294 (D) 343
83. If the word 'INSPECTOR' is coded as 987654321, what is the code for 'INSPECTION'?
- (A) 987654321 (B) 9876543928  
(C) 9876543289 (D) 9876543288

987

215  
3125  
7

84. If  $\frac{x}{5} = \frac{y}{3}$  then  $x+5 : y+3 =$  :
- (A) ~~3:5~~ (B) 5:7  
 (C) 5:3 (D) 7:5
85. What is the next number in the series 6, 10, 9, 13, 12, —?
- (A) 15 (B) 6  
 (C) 16 (D) 11
86. Sum to infinity of the series  $\frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \dots$
- (A) 1 (B)  $\frac{1}{4}$   
 (C) 2 (D) infinity
87. 2015 September 24 is Monday. After 61 days it will be :
- (A) ~~Wednesday~~ (B) ~~Thursday~~  
 (C) ~~Tuesday~~ (D) Saturday
88. Fill in the blanks :  
 Train : Station : Ship : \_\_\_\_\_
- (A) Sea (B) Harbour  
 (C) Backwater (D) Anchor
89. Ajith is in the East of Manu and he is also in the north of Akshay. If Raju is in the South of Akshay, then in which direction of Ajith is Raju?
- (A) North (B) South  
 (C) South East (D) South West
90. Synonym of the word 'Nuptials' :
- (A) Wedding (B) Death  
 (C) Birth (D) Disaster
91. A Philatelist collects :
- (A) coins (B) clocks  
 (C) birds (D) stamps
92. The antonym of "Confess" :
- (A) admit (B) deny  
 (C) contest (D) neglect

D

93. Find out the passive form of the given sentence :  
Mary's attitude surprised her.
- (A) She were surprised by Mary's attitude  
(B) ~~Mary~~ was surprised by her attitude  
(C) She was surprised by Mary's attitude  
(D) She had been surprised by Mary's attitude
94. Pick out the meaning of the given sentence :  
He is high-handed.
- (A) ~~He~~ is rich  
(B) He behaves arrogantly  
(C) He is in a superior position  
(D) He is always pleasing.
95. She accused me \_\_\_\_\_ poisoning her dog.
- (A) ~~of~~  
(B) for  
(C) with  
(D) on
96. Pick out the plural form of "hero" :
- (A) heres  
(B) hero  
(C) ~~heroes~~  
(D) heross
97. Germany is \_\_\_\_\_ European country.
- (A) an  
(B) ~~a~~  
(C) the  
(D) no article required
98. Hema \_\_\_\_\_ one of the best students in the class.
- (A) are  
(B) has  
(C) were  
(D) ~~is~~
99. The place where birds are kept :
- (A) zoo  
(B) ~~aviary~~  
(C) orchard  
(D) aquarium
100. Choose the correctly spelt word :
- (A) ~~hypocrite~~  
(B) hyppocrite  
(C) hipocrite  
(D) hippocrite