

PSC Laboratory Technical Assistant - Fisheries - Fish Processing Technology in VHSE Examination Previous Year Question Paper

***Exam Name: Laboratory Technical Assistant -
Fisheries - Fish Processing Technology in VHSE***

Date of Test : 20.01.2015

Question Paper Code: 013/2015

Medium of Questions: English



13/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. Coast line of India is _____ Km.
(A) 7690 (B) 8129
(C) 590 (D) 6190
2. An amino acid responsible for sweet taste in prawn :
(A) Cystine (B) Glysine
(C) Methionine (D) Valine
3. Indian oil sardine, *Sardinella longiceps* is a plankton feeder, mainly feeds on :
(A) *Fragillaria oceanica* (B) *Hyperia macrocephala*
(C) *Microcystis* (D) Copepods
4. Area of Indian EEZ :
(A) 0.506 MKm² (B) 2200 Km
(C) 2.02 Million Km² (D) 590 Km
5. Odd man out from the following :
(A) Gujarath (B) Orissa
(C) Goa (D) Bihar
6. A passive gear used for fishing :
(A) Trawl net (B) Purse seine net
(C) Gill net (D) Ring net
7. A compound responsible for the characteristic fishy odour and flavour of marine fish :
(A) DHA (B) TMAO
(C) Amino acid (D) PUFA

8. Select a water soluble vitamin from the following :
- (A) Vitamin C (B) Vitamin A
(C) Vitamin E (D) Vitamin D
9. A lean fish :
- (A) Sardine (B) Mackerel
(C) Ribbon fish (D) Anchovy
10. _____ is the phenomenon of stiffening of muscle shortly after death.
- (A) Rigor mortis (B) Autolysis
(C) Auto oxidation (D) Melanosis
11. An anaerobic bacteria causing food poisoning :
- (A) Salmonella typhi (B) Vibrio cholera
(C) Clostridium botulinum (D) Strepto coccus
12. Bacteria which grow at temperature of 0 – 20°C is known as :
- (A) Psychrophiles (B) Mesophiles
(C) Acidophiles (D) Thermophiles
13. Which one of the following is not an icing method?
- (A) Boxing (B) Filling
(C) Shelving (D) Bulking
14. Chlorine level of processing water is _____ ppm.
- (A) 50 (B) 2
(C) 20 (D) 5
15. Solid Carbon dioxide is :
- (A) Flake ice (B) Tube ice
(C) Dry ice (D) Block ice
16. _____ °C is the temperature of cold storage.
- (A) – 40 (B) – 28
(C) – 15 (D) – 20

17. Head Quarters of CMFRI :
(A) Mumbai (B) Chennai
(C) Goa (D) Cochin
18. Odd man out from the following :
(A) Sardine (B) Mackerel
(C) Shark (D) Tuna
19. A refrigerant used in an ice plant :
(A) Ammonia (B) Nitrogen
(C) Carbon dioxide (D) Oxygen
20. Select a Crustacean from the following :
(A) Sardine (B) Crab
(C) Squid (D) Perna spp.
21. Freezer suitable for block freezing :
(A) Plate freezer (B) Fluidised bed freezer
(C) Tunnel freezer (D) Cryogenic freezer
22. Select a modern fish preservation method from the following :
(A) Drying (B) Pickling
(C) Freezing (D) Salting
23. A type of cold storage :
(A) Tunnel (B) Unit cooler
(C) Air blast (D) Deep cooler
24. In which of the following packaging method 3 ply laminated material is used :
(A) Retortable pouch (B) Vacuum packaging
(C) MAP (D) CAP
25. Select the process of removal of water from fish without altering its cell structure :
(A) Evaporation (B) Glazing
(C) Melting (D) Freeze - drying

26. Find the odd man out :
- (A) Cesium – 137 (B) Cobalt – 60
(C) Strontium – 90 (D) Carbon – 12
27. Fungal attack in marinated products are prevented by using :
- (A) BHA (B) Propionic acid
(C) Potassium sorbate (D) MSG
28. The type of preservation which is most suitable during rainy season :
- (A) Dry curing (B) Monocuring
(C) Wet curing (D) Smoke curing
29. Irradiation dose used for radication :
- (A) Below 0.5 Mega rad (B) 0.5 – 1 Mega rad
(C) Above 1 Mega rad (D) None of the above
30. Causative organism of DUN spoilage :
- (A) Serratia (B) Sporendonema
(C) Micrococcus (D) Sarcina
31. Rust in salted product can be prevented by using :
- (A) MSG (B) Sorbic acid
(C) BHA (D) Sodium Benzoate
32. A carcinogenic substance present in the smoke :
- (A) 3, 4 Benzopyrene (B) N acetyl glucosamine
(C) Carbon mono oxide (D) Catechol
33. Principle used in freeze-drying :
- (A) Evaporation (B) Osmosis
(C) Cooling (D) Sublimation
34. A can in which the ends permanently and firmly distended :
- (A) Springer (B) Flipper
(C) Soft swell (D) Hard swell

35. In canning process the step immediately after Exhausting :
(A) Exhausting (B) Cooling
(C) Seaming (D) Filling
36. A smoked product :
(A) Masmin (B) Beche-demer
(C) Ambergris (D) Isin glass
37. A product prepared from air bladder of cat fish :
(A) Squalene (B) Surgical sutures
(C) Fish meal (D) Isin glass
38. T.P.C limit for frozen fish based on BIS specification :
(A) 5 – 7 lakh (B) Below 5 lakh
(C) 7 – 10 lakh (D) Above 10 lakh
39. Glass like crystals found in certain canned products :
(A) Struvite (B) Rust
(C) Salt (D) Dun
40. Which one of the following is not connected with Freeze-dried product?
(A) No shrinkage (B) Rehydration more
(C) Long shelf life (D) Cost of production less
41. Blue discoloration in canned product is connected with :
(A) Shark (B) Sardine
(C) Crab (D) Seer fish
42. Struvite formation in canned product can be prevented by adding :
(A) BHA (B) Sorbic acid
(C) EDTA (D) Acetic acid
43. A processing method in which complete destruction of vegetative bacteria is achieved :
(A) Freezing (B) Canning
(C) Marinading (D) Salting

44. Ideal salt curing method for lean fishes :
- (A) Dry curing (B) Wet curing
(C) Monna curing (D) Colombo curing
45. Ideal packing material for fish pickle :
- (A) Polythene bag (B) Plastic bottle
(C) Aluminium can (D) Glass jar
46. Chitosan is prepared from :
- (A) Prawn shell waste (B) Air bladder
(C) Gut (D) Fish scales
47. Shark fin rays are used for the preparation of :
- (A) Ornaments (B) Leather
(C) Soup (D) Manure
48. Scientific name of Black tiger shrimp :
- (A) *Metapenaeus affinis* (B) *Penaeus monodon*
(C) *Penaeus indicus* (D) *Metapenaeus monoceros*
49. Fish protein concentrate is a colourless and tasteless stable product intended for :
- (A) Fish feed (B) Manure
(C) Human consumption (D) Poultry feed
50. An Indian quality standard :
- (A) E.U. Standards (B) BIS
(C) ISO - 9000 (D) US FDA
51. Head Quarters of International organization for standardisation :
- (A) Geneva (B) New York
(C) New Delhi (D) Tokyo

52. Which one of the following is a total quality management based on consumer safety through systematic approach to the identification, assessment and control of hazard?
- (A) IPQC (B) MIPQC
(C) HACCP (D) CAC
53. An instrument used for Dry sterilization :
- (A) Hot air oven (B) Incubator
(C) Auto clave (D) Hydrometer
54. Which of the following causes ozone layer depletion :
- (A) Ammonia (B) Smoke
(C) Freon (D) Mercury
55. A thin layer of ice coating over the fish before or after freezing to prevent dehydration during storage :
- (A) Chilling (B) Cooling
(C) Icing (D) Glazing
56. Freezing temperature for fish products :
- (A) -20°C (B) -40°C
(C) -10°C (D) -30°C
57. Function of sarcoplasmic protein :
- (A) Muscle movement (B) Connective tissue
(C) Respiration (D) Metabolism
58. Pearl essence is made from :
- (A) Fish scales (B) Fish gills
(C) Pearl oyster (D) Fish gut
59. The source of agar :
- (A) Sea anemone (B) Sea lily
(C) Sea cucumber (D) Sea weed

60. The name, Nicholas Appert is connected with :
(A) Freezing (B) Smoking
(C) Canning (D) Irradiation
61. Ambergris is connected with :
(A) Shark (B) Sea weed
(C) Sperm whale (D) Skip jack
62. In canning process removal of air from the can takes place during :
(A) Blanching (B) Cooling
(C) Seaming (D) Exhausting
63. A product from the shark liver oil which reduces cholesterol level :
(A) Chitin (B) Squalene
(C) DHA (D) PUFA
64. Fish meal production, ideal for fatty fishes :
(A) Dry rendering (B) Wet rendering
(C) Viobian method (D) Canadian Process
65. Bacteria which grow best in the presence of salt :
(A) Halophilic (B) Halophobic
(C) Mesophilic (D) Acidophilic
66. Which of the statement below is not true with Vibrio Cholera?
(A) Spore forming (B) Aerobic
(C) Gram negative (D) Comma shaped
67. Fish which contain highest water content :
(A) Sardine (B) Ribbon fish
(C) Bombay duck (D) Shark
68. Proteins are complex organic nitrogenous substances made by sub units called :
(A) Fatty acids (B) Minerals
(C) Amino acids (D) Carbohydrates

69. Which of the following is considered as an index of freshness of fish?
- (A) TMAO (B) Hypoxanthine
(C) ATP (D) Auto oxidation
70. The ratio of ice to fish is roughly :
- (A) 1 : 2 (B) 2 : 1
(C) 1 : 3 (D) 1 : 1
71. Bacteria are measured in microns. One microne is equal to :
- (A) $1/100^{\text{th}}$ of millimeter (B) $1/1000^{\text{th}}$ of centemeter
(C) $1/100^{\text{th}}$ of centemeter (D) $1/1000^{\text{th}}$ of millimeter
72. Chemical name of struvite :
- (A) Magnesium Ammonium Phosphate Hexahydrate
(B) Magnesium Ammonium sulphate
(C) Magnesium Ammonium sulphate Hexahydrate
(D) Magnesium Ammonium Phosphate
73. Father of Micro biology :
- (A) Louis Pasture (B) A.V. Leeuwenhoek
(C) Alexander Fleming (D) Charles Darwin
74. Dried Sea cucumber :
- (A) Isin glass (B) Fish wafers
(C) Beche-demer (D) Perfume
75. The cheapest fish preservation method :
- (A) Freezing (B) Sun drying
(C) Canning (D) Irradiation
76. Best suitable container for canned foods :
- (A) Aluminium can (B) Tin can
(C) Glass jar (D) Retort pouch

77. In large sized cans the body may become forced inwards by atmospheric pressure. This process is called :
- (A) Flipper (B) Springer
(C) Hard swell (D) Paneling
78. In mechanical drying moisture level of fish can be lowered up to :
- (A) 15 – 20% (B) 1 – 5%
(C) 5 – 15% (D) 20 – 25%
79. Preservatives commonly used in Pickling :
- (A) Salt and Acetic acid (B) Acetic acid only
(C) Salt and Ascorbic acid (D) Salt only
80. Surgical sutures are made from :
- (A) Fish scales (B) Fish oil
(C) Fish gut (D) Air bladder
81. The Royal Indian Naval Revolt of 1946 broke out in :
- (A) Bombay (B) Calcutta
(C) Madras (D) Delhi
82. The Founder of self-respect movement was :
- (A) E.V. Rama Swamy Naiker (B) K. Ayyappan
(C) Ayyankali (D) Annie Besant
83. "Kerala Simham" is a novel by :
- (A) M.T. Vasudevan Nair (B) M. Mukundan
(C) K.M. Panicker (D) P. Valsala
84. "Anand Mutt" was a novel in _____ language.
- (A) English (B) Bengali
(C) Tamil (D) Telugu

85. The Khilafat movement was started by :
(A) Gandhiji (B) Jinnaha
(C) Ali Brothers (D) Muhamad Iqbal
86. The Chairman of planning commission in India is :
(A) Narendra Modi (B) Arun Jaitly
(C) L.K. Advani (D) Sushma Swaraj
87. "Drain theory" was presented by :
(A) R.C. Dutt (B) Dadabai Navroji
(C) R.P. Dutt (D) Motilal Nehru
88. Western Education in India was introduced by the advice of :
(A) H.H. Hunter (B) Lord Macaulay
(C) Charles Wood (D) Charls Grant
89. Kerala Folklore Academy is situated in :
(A) Kozhicode (B) Thrissur
(C) Malappuram (D) Kannur
90. Who started Ashram in Pondicherry?
(A) Gandhiji (B) Aurobindo Gosh
(C) Vinobabave (D) Anna Hazare
91. Saradha Chitty Scam was reported from :
(A) Bihar (B) West Bengal
(C) Kerala (D) Tamilnadu
92. Justice Sivarajan Commission was set up for inquiry into :
(A) Solar Scam (B) Boat Tragedy
(C) Petrol Price Control (D) Delhi Gang Rape
93. Tolstoy farm set up by Gandhi was in :
(A) Surat (B) Ahamadabad
(C) South Africa (D) Madhya Pradesh

94. The Chief Minister of newly formed state Telengana is:
- (A) Chandra Babu Naidu (B) Yella Reddy
(C) K. Chandra Sekhara Rao (D) Kumarappa
95. _____ is known as "Blue Gold".
- (A) Petrol (B) Diesel
(C) Diamond (D) Water
96. Kumaran Asan and Dr. Palpy were associated with the organisation :
- (A) SNDP (B) NSS
(C) NDP (D) Yokashema Sabha
97. World Blood Donar Day is :
- (A) December 14 (B) January 14
(C) March 14 (D) June 14
98. Smallest river in Kerala :
- (A) Pamba (B) Chaliyar
(C) Valapatanam (D) Manjeswaram
99. Supreme Court ordered for the raise of water level of Mullaperiyar to :
- (A) 140 feet (B) 141 feet
(C) 142 feet (D) 144 feet
100. "No Caste, No Religion, No God for Mankind" – Who said it?
- (A) EMS
(B) Sahodaran Ayyappan
(C) Karl Marx
(D) Ayyan Kali