FINAL ANSWER KEY

Question Paper Code:75/2017/OLCategory Code:355/2013Exam:MicrobiologistMedium of Question:EnglishDate of Test14-09-2017DepartmentFood Safety

Alphacode A

Question1:-The Radcliffe line is the international border between

A:-India and China

B:-India and Pakistan

C:-India and Sri Lanka

D:-India and Maldives

Correct Answer:- Option-B

Question2:-The oldest fold mountain in India?

A:-Nilgiri Mountain

B:-Kanchenjunga

C:-Vindhya hills

D:-Aravalli Range

Correct Answer:- Option-D

Question3:-Which of the following rivers originates from the Western Ghats near Mahabeleswar Peak?

A:-Krishna

B:-Kaveri

C:-Godavari

D:-Sabarmati

Correct Answer: - Option-A

Question4:-The battle of Plassey was fought between

A:-Mir Qasim and East India Company

B:-Shahalam and Robert Clive

C:-Mirjafar and Robert Clive

D:-Sirajuddaula and Robert Clive

Correct Answer:- Option-D

Question5:-Who is known as "The Father of Indian Renaissance"?

A:-Rabindranath Tagore

B:-Swami Vivekananda

C:-Raja Ram Mohan Roy

D:-Jawaharlal Nehru

Correct Answer:- Option-C

Question6:-Poora Swaraj day was observed on

A:-8th August 1942

B:-26th January 1930

C:-22nd March 1940

D:-21st December 1928

Correct Answer:- Option-B

Question7:-Who was the second President of Indian National Congress?

A:-Dadabhai Naoroji

B:-Mrs. Annie Besant

C:-George Yule

D:-Badruddin Tayyabji

Correct Answer:- Option-A

Question8:-The 14 major Indian banks were nationalised during which five year plan?

A:-Fifth plan

B:-Ninth plan

C:-Fourth plan

D:-Second plan

Correct Answer:- Option-C

Question9:-The second longest river in Kerala

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A:-Bharatha Puzha
    B:-Periyar
    C:-Pamba
    D:-Chalakudi
    Correct Answer: - Option-A
Question10:-Who was the founder of Trissur City?
    A:-Kerala Varma
    B:-Achutha Menon
    C:-Raja Rama Varma
    D:-Panampilly Govinda Menon
    Correct Answer:- Option-C
Question11:-The First book in Malayalam literature questioning the cast system and untouch ability?
    A:-Jathi Nirnayam
    B:-Adukkalayil ninnu arangathekku
    C:-Untouchables
    D:-Jathikummi
    Correct Answer:- Option-D
Question12:-The founder of the newspaper Swadeshabhimani?
    A:-Rama Krishna Pillai
    B:-Vakkom Moulavi
    C:-Sayyid Ahmed Khan
    D:-Madhavan Nair
    Correct Answer:- Option-B
Question13:-Ezhava Memorial was submitted to
    A:-Karthika Tirunal
    B:-Babrama Varma
    C:-Swathi Tirunal
    D:-Sree Moolam Tirunal
    Correct Answer:- Option-D
Question14:-Who was the founder of Athmavidya Sangam?
    A:-Vagbhatananda
    B:-Sree Narayana Guru
    C:-Chattampi Swami
    D:-Ayyankali
    Correct Answer: - Option-A
Question15:-Who was the founder of Samathwa Samajam?
    A:-Thycaud Ayya
    B:-Pandit Karuppan
    C:-Vaikunda Swami
    D:-Brahmananda Sivayogi
    Correct Answer:- Option-C
Question16:-The Brand Ambassider of Harithakeralam project
    A:-Manju Warrier
    B:-K.J. Yesudas
    C:-Mammootty
    D:-Mohanlal
    Correct Answer:- Option-B
Question17:-The Secretary General of SAARC
    A:-Arjun Bahadur Thapa
    B:-Ahmed Saleem
    C:-Sheel Sharma
    D:-Amjad Hussain B. Sial
    Correct Answer:- Option-D
Question18:-Which team wins the Ranji Trophy Final 2017?
    A:-Mumbai
    B:-Gujarat
    C:-Karnataka
    D:-Maharashtra
    Correct Answer:- Option-B
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Question19:-Which launching vehicle of ISRO got the reward of 104 space craft in their desired orbits?
    A:-PSLV C: 34
     B:-PSLV C: 35
     C:-PSLV C: 37
     D:-PSLV C: 36
     Correct Answer:- Option-C
Question20:-Who is the latest recipient of Inanpith Award?
     A:-Shankhe Ghosh
     B:-Raghuveer Chaudhari
     C:-Balachandra Nemade
     D:-Kedarnath Singh
     Correct Answer:- Option-A
Question21:-Which among the following organisms causes food borne intoxication as a cause of food poisoning?
     A:-Staphylococcus aureus
     B:-Gonyaulax Catenella
     C:-Yersinia Enterocolitica
     D:-Clavices Purpurea
    Correct Answer:- Option-A
Question 22: - What is the optimum temperature for the growth of most of the psychrotrophs?
    A:-15° C
     B:-20° C
     C:-1° C
     D:-10° C
     Correct Answer:- Option-B
Question23:-Still birth in cattle and human beings is caused by the action of food poisoning that involves the presence of
which of the bacteria?
     A:-Vibrio Cholarae
     B:-Listeria Monocytogenes
     C:-Campylobacter jejuni
     D:-Clostridium botulinum
     Correct Answer:- Option-B
Question24:-Name the anti microbial ingredient present in clove
     A:-Cinnamaldehyde
     B:-Cineole
     C:-Thujone
     D:-Eugenol
    Correct Answer:- Option-D
Question25:-Select the Eh value limit, below which an environment is considered to be anaerobic in nature
     A:-200 mV
    B:--500 mV
     C:--200 mV
     D:--501 mV
     Correct Answer:- Option-C
Question26:-Name a mold like yeast among the following
     A:-Amylomyces
     B:-Endomycopsis
     C:-Candida
     D:-Pichia
     Correct Answer:- Option-B
Question27:-The maximum amount of alcohol content permissible in the case of table vines
     A:-10%
     B:-12%
     C:-20%
     D:-14%
     Correct Answer:- Option-D
Question28:-Name the fermented product from the juice of the cactus plant Agave
     A:-Pulque
     B:-Kemph
     C:-Sake
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D:-Kummis

Correct Answer: - Option-A

Question29:-The flavouring compound with antibacterial activity that is present in the flower petals of the plant Hops that is used in the beer industry

A:-Cadaverine and Putrescene

B:-Flavons and Flavanones

C:-Humulone and Lupulone

D:-Thujone and ceneo

Correct Answer:- Option-C

Question 30: How the personal hygiene in HACCP system in a meat processing plant is monitored?

A:-Visual inspection

B:-Hand swabs

C:-Both (1) and (2)

D:-None of the above

Correct Answer:- Option-B

Question31:-Which is the human organ that is affected by Veno-Occlusive disease?

A:-Heart

B:-Intestine

C:-Liver

D:-Kidneys

Correct Answer:- Option-C

Question32:-Deoxynevalenol is grouped under the broad category of chemicals referred to as

A:-Trichothecines

B:-Lectins

C:-Terpenoids

D:-Flavanoids

Correct Answer: - Option-A

Question33:-Select the microaerophilic bacteria that causes food poisoning

A:-Vibrio parahaemolyticus

B:-Camylobacter jejuni

C:-Bacillus cereus

D:-Clostridium sp

Correct Answer:- Option-B

Question34:-Mention the name of the scientist who first proposed the use of steel cans for the canning process

A:-Francois Appert

B:-Lazzaro Spallanzani

C:-Peter Durand

D:-Harry Russel

Correct Answer:- Option-C

Question35:-Which of the following sequence accurately represent the Aw requirement in the decreasing order of demand for growth in food stuffs?

A:-Spoilage bacteria > Spoilage yeast > Spoilage mold > Halophilic bacteria > Osmophilic yeast

B:-Halophilic bacteria > Spoilage bacteria > Spoilage yeast > Spoilage mold > Osmophilic yeast

C:-Spoilage bacteria > Spoilage yeast > Spoilage mold > Osmophilic yeast > Halophilic bacteria

D:-Spoilage yeast > Spoilage bacteria > Spoilage mold > Halophilic bacteria > Osmophilic yeast

Correct Answer:- Option-A

Question36:-Which among the following is not a Class I preservative?

A:-Propionic acid

B:-Dextrose

C:-Honev

D:-Sodium chloride

Correct Answer:- Option-A

Question37:-Itai-Itai disease in Japan is caused by the toxicity of which of the following?

A:-Arsenic

B:-Copper

C:-Mercury

D:-Cadmium

Correct Answer:- Option-D

Question38:-Name the toxic alkaloid present in Argemone mexicana which is a major adulterant in mustard

A:-Thiocyanate B:-Dioxine C:-Sanguinarine D:-Trimethyl amine Correct Answer:- Option-C Question39:-During the production of beer making, in which of the following step the non soluble unfermentable carbohydrates from the cereals are hydrolyzed into soluble fermentable materials? A:-Mashing B:-Malting C:-Hop addition D:-Wort processing Correct Answer: - Option-A Question40:-What is milk plasma? A:-Milk without lactose B:-Milk without casein C:-Milk without fat globules D:-Milk without whey Correct Answer:- Option-C Question41:-Name the psychotrophic bacteria belonging to enterobacteriaceae that causes enteric infection A:-Shigella Flexneri B:-Yersinia enterocolitica C:-Enterobacter fecalis D:-Escherichia Coli Correct Answer:- Option-B Question42:-Which is the toxic protein present in "Killer yeast" that has adverse effect on beneficial yeast? A:-Mycocide B:-Bactocide C:-Zymocide D:-Saccharocide Correct Answer:- Option-C Question43:-Which is the new taxonomical name given to the bottom fermenting yeast "Saccharomyces carlsbergensis"? A:-Saccharomyces uvarum B:-Saccharomyces pastorianus C:-Saccharomyces udum D:-Saccharomyces lactis Correct Answer:- Option-B Question44:-The scientist who first developed pure culture of yeast for the production of beer A:-Brefeld B:-Joseph Lister C:-Emil Hansen D:-Louis Pasteur Correct Answer:- Option-C Question 45:-Select the sequence of downstream processing involved in most of the production process of antibiotics A:-Filtration - Solvent Extraction - Crystallization - Drying B:-Solvent Extraction - Filtration - Crystallization - Drying C:-Filtration - Crystallization - Solvent Extraction - Drying D:-Crystallization - Solvent Extraction - Filtration - Drying Correct Answer: - Option-A Question46:-Indonesian Tempeh is a processed food derived from A:-Rice B:-Soybean C:-Groundnut D:-Wheat Correct Answer:- Option-B Question47:-Name the bacterial species with the presence of an active pyruvate carboxylase enzyme

A:-Pseudomonas aeruginosa B:-Lactobacillus brevis C:-Streptococcus lactis D:-Zymomonas mobilis

Correct Answer:- Option-D Question 48:- The enzyme responsible for the conversion of starch into fermentable sugars in the beer making process is A:-cellulase B:-amylase C:-glucanase D:-maltase Correct Answer:- Option-B Question49:-The most important anaerobic bacterial species that causes meat putrefication is A:-Bacillus cereus B:-Clostridium perfringens C:-Clostridium tetani D:-Clostridium botulinum Correct Answer:- Option-B Question50:-Name the neurotoxin that is involved in lathyrism A:-Trimethyl amine B:-Trimethyl amine oxide C:-Beta oxalyl amino alanine D:-Sanguinarine Correct Answer:- Option-C Question51:-Select the temperature that can be tolerated by the emetic toxin of Bacillus cereus A:-112°C B:-85°C C:-152°C D:-126°C Correct Answer:- Option-D Question52:-Which among the following is the causative agent for shell fish poisoning? A:-Gonyaulax Catenella B:-Vibrio Parahaemolyticus C:-Giardia lamblia D:-Salmonella typhimurium Correct Answer: - Option-A Question53:-Select the critical limit of temperature as the CCP in the process steps of pasteurization in an HACCP plant for liquid milk $A:-138 \pm 2^{\circ}C$ $B:-55 \pm 2^{\circ}C$ $C:-77 \pm 2^{\circ}C$ D:-None of the above Correct Answer:- Option-C Question54:-VOD is caused by the toxin present in the seeds of which adulterant plant? A:-Crotalaria nanaburn B:-Panicum maximum C:-Argemone Mexicana D:-Arabidopsis Thaliana Correct Answer:- Option-A Question55:-Which of the following condition the disease "Hyperkeratosis" is associated with? A:-Acute arsenic exposure B:-Chronic fluoride exposure C:-Acute fluoride exposure D:-Chronic arsenic exposure Correct Answer:- Option-D Question56:-Pink colour formation in oysters is due to the infestation with which of the following organism? A:-Rhodotorula B:-Rhosdospirillum C:-Halobacterium D:-Serratia Correct Answer:- Option-C Question57:-What do you mean by the term "fugu"? A:-Algal poisoning

B:-Shell fish poisoning

C:-Algal blooming D:-Puffer fish poisoning Correct Answer:- Option-D Question58:-Film forming yeast that causes the spoilage of wine is A:-Candida B:-Hansenula C:-Schizosaccharromyces D:-Albugo Correct Answer:- Option-B Question59:-Which among the following is a heterofermentative lactic acid bacteria? A:-Lactococcus B:-Streptococcus C:-Leuconostoc D:-Pediococcus Correct Answer:- Option-C Question60:-Select the factors that favour the growth of molds compared to bacteria in fruits A:-Low carbohydrate content and low pH B:-High carbohydrate content and low pH C:-High carbohydrate content and high pH D:-Low carbohydrate content and high pH Correct Answer:- Option-B Question61:-Bacteriocins are used as a food preservative against which of the following? A:-Gram positive bacteria B:-Gram negative bacteria C:-Yeasts D:-Fungi Correct Answer:- Option-B Question62:-Reuterine, an anti microbial substance produced by Lacto bacillus reuteri, that is used as a food preservative requires which of the following substance as a substrate for its synthesis? A:-Catechol B:-Tryptophan C:-Glycerol D:-Glucose Correct Answer:- Option-C Question63:-Which among the following private enterprise contributed to the development of HACCP? A:-Nestle B:-Parle C:-Pillsbury D:-Cadbury Correct Answer:- Option-C Question64:-Dye reduction test is used for assessing the quality of A:-Meat B:-Beer C:-Wine D:-Milk Correct Answer:- Option-D Question65:-The destructive effect of ozone on bacteria was first noticed by A:-Kurkowitsch B:-Metchnikoff C:-Beijerinck D:-Paul Earhlich Correct Answer:- Option-A Question66:-Which is the step that helps in determining the critical control points in an HACCP system? A:-Development of a flow chart B:-Development of a decision tree C:-Development of a flow diagram D:-Listing out of potential hazards

Correct Answer:- Option-B

Question67:-Which is the mobile phase in gas chromatography?

A:-Liquid B:-Solid C:-Gas D:-None of the above Correct Answer:- Option-C Question68:-"Eyes" in Swiss cheese are formed as a result of A:-Entrapment of oxygen B:-By the action of rennin C:-Degradation of casein D:-Entrapment of `"CO 2"` Correct Answer:- Option-D Question 69:-Which among the following is a fungal bioagent used for commercial production of α amylase? A:-Trichoderma viridae B:-Rhodotorula sp C:-Aspergillus oryzae D:-Aspergillus niger Correct Answer:- Option-C Question70:-Which among the following is the actinobacteria used for the production of SCP? A:-Rhodococcus sp B:-Cellulomonas sp C:-Micrococcus sp D:-Corynebacterium sp Correct Answer:- Option-B Question71:-In a continuous culture system which is the term that denotes the substrate concentration at which the specific growth rate is equal to half of the maximum specific growth rate? A:-Critical dilution constant B:-Specific consumption constant C:-Pasteur specific rate constant D:-Monod saturation constant Correct Answer:- Option-D Question72:-Which of the following statement is not true with respect to HACCP? 1. It is an end product test 2. It is a preventive approach 3. It is a continuous approach 4. Corrective actions are taken at every stage A:-Statement 1 B:-Statement 1 and 4 C:-Statement 3 D:-Statement 1 and 3 Correct Answer: - Option-A Question73:-To which of the following group Giardia lamblia belongs to A:-Fungus B:-Bacteria C:-Protozoa D:-Alga Correct Answer:- Option-C Question74:-Select the pasteurization temperature used for ice cream mix A:-71.1°C for 10 sec B:-82.2°C for 20 sec C:-65°C for 30 min D:-71.1°C for 10 min Correct Answer:- Option-B Question75:-In which of the following food stuff nitrates are used as chemical preservatives? A:-Meat B:-Egg

C:-Vegetables

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D:-Milk
     Correct Answer: - Option-A
Question76:-A common mold that could be present in insufficiently canned fruit product is
     A:-Aspergillus niger
     B:-Byssochlamys fulva
     C:-Penicillium notatum
     D:-Phytophthora carotovora
     Correct Answer:- Option-B
Question77:-To which of the category the toxin Linamarin belongs to
     A:-Pyrrolizidene alkaloid
     B:-Carboxylic acid
     C:-Hydrated polyamine
     D:-Cyanogenic glycoside
     Correct Answer:- Option-D
Question 78:- The first step in any HACCP programme is
     A:-To document the procedures
     B:-To conduct a hazard analysis
     C:-To establish critical limits
     D:-To determine critical control points
     Correct Answer:- Option-B
Question79:-Which is the most common detector in HPLC?
    A:-ECD
     B:-FID
     C:-UV/Vis
     D:-FTD
     Correct Answer:- Option-C
Question80:-Which is the starting substrate used for the production of white wine?
     A:-White grapes
     B:-De-skinned red/black grapes
     C:-Only (1)
     D:-Both (1) and (2)
     Correct Answer:- Option-D
Question81:-Mention the factor responsible for affecting the digestibility of dietary protein in food
     A:-Pyruvate carboxylase
     B:-Ozxalates
     C:-Trypsin inhibitor
     D:-Goiterogens
     Correct Answer:- Option-C
Question82:-Select the hard cheese among the following
     A:-Cheddar
     B:-Camembert
     C:-Roquefort
     D:-Parmesan
     Correct Answer:-Question Cancelled
Question83:-Choose the enzymes that are not present in obligate anaerobic organisms
     A:-SOD
     B:-Catalase
     C:-SOD and catalase
     D:-Catalase and peroxidase
     Correct Answer:- Option-C
Question84:-Select the pH range at which the preservative action of sodium benzoate is the maximum
    A:-5.6-7.0
     B:-7.5-8.0
     C:-2.5-4.0
     D:-6.5-7.5
     Correct Answer:- Option-C
Question85:-Which is the symptom of spoilage caused by Cladosporium herbarum in meat?
     A:-Green patches
     B:-White spot
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C:-Whiskers D:-Black spot Correct Answer:- Option-D Question86:-Which is the anaerobic bacterial species that produces a neurotoxin that is found associated with insufficient canning processes? A:-Bacillus cereus B:-Clostridium botulinum C:-Desulfovibrio sp D:-Desufatomaculum sp Correct Answer: - Option-B Question87:-Which among the following is the spoilage symptom caused by Erwinia Carotovora in vegetables? A:-Soft rot B:-Grey spot C:-Angular spot D:-Ropiness Correct Answer: - Option-A Question88:-Detection of which of the compound in fish would reveal the spoilage occurrence? A:-TMAO B:-TMA C:-PUFA D:-TTX Correct Answer:- Option-B Question89:-Paralytic shellfish poisoning is caused by A:-Saxitoxin by Gonyaulax catenella B:-Neurotoxin by dinoflagellates C:-Serotoxin by diatoms D:-None of the above Correct Answer: - Option-A Question 90:-Which is the crhomatographic system that is used for analyzing samples with volatile activity? A:-TLC B:-Paper chromatography C:-GLC D:-lon exchange chromatography Correct Answer:- Option-C Question91:-Which is the most probable food poisoning organism that is associated with the complications arising out of the consumption of the Japanese food "sushi"? A:-Camylobacter jejuni B:-Vibrio Cholarae C:-Pseudomonas aruginosa D:-Vibrio parahaemolyticus Correct Answer:- Option-D Question 92:- In a chemostat what is the dilution rate, if the flow rate is 50 ml per hr and the volume of the vessel is 500 ml? A:-0.1 per hr B:-10.0 per hr C:-0.01 per hr D:-25000 per hr Correct Answer: - Option-A Question93:-Which of the fungus causes ergotism? A:-Claviceps purpurea B:-Rhizopus stolanifer C:-Aspergillus flavus D:-Fusarium oxysporum Correct Answer:- Option-A Question94:-The starting material for the production of "Rum" is A:-Wheat B:-Barley C:-Grapes

D:-Molasses

Correct Answer:- Option-D

Question95:-Name the process of irradiation process in which viable, non-spore forming, pathogenic bacteria are eliminated from the food

A:-Radicidation

B:-Radurization

C:-Radappertization

D:-None of the above

Correct Answer:- Option-A

Question96:-Name the amino acid that is usually deficient in the single cell protein of microbial origin

A:-L-tryptophan

B:-L-methionine

C:-L-arginine

D:-L-cystine

Correct Answer:- Option-B

Question 97:- Which is the test that is used for assessing the efficiency of pasteurization of milk?

A:-Hydrogenase test

B:-Chemiluminescence test

C:-Phosphatase test

D:-Azide reduction test

Correct Answer:- Option-C

Question 98:- The number of days to lapse before the pesticide residue get dissipated is designated as

A:-Dissipation period

B:-Waiting period

C:-Harvest duration

D:-Lag period

Correct Answer:- Option-B

Question99:-One gray in the radiation measurement is

A:-1000 rads

B:-100 erg

C:-100 rads

D:-1000 erg

Correct Answer:- Option-C

Question100:-The causative agent for aflotoxicosis is

A:-Fusarium oxysporum

B:-Aspergillus flavus

C:-Claviceps fusiformis

D:-Rhizopus stolanifer

Correct Answer:- Option-B