FINAL ANSWER KEY

Question
Paper Code:108/2023/OLCategory
Code:026/2021Exam:Technical Assistant Grade II (SR for ST only)Date of Test11-07-2023DepartmentFood Safety

Question1:-In caramelization process, caramelan formation occurs due to:

A:-Isosachrosan heating at 155 C for 30 min

B:-Levolusan heating at 135 C for 55 min

C:-Glucose heating at 135 C for 55 min

D:-Fructose heating at 135 C for 30 min

Correct Answer:- Option-B

Question2:-Debittering enzymes used in fruit processing industries includes

A:-Naringinase

B:-Pullulanase

C:-Pectinase

D:-Cellulase

Correct Answer:- Option-A

Question3:-Following enzyme is used in immobilized state for prevention of acrylamide formation during frying

A:-Acrylamide synthase

B:-Asparaginase

C:-Lipase

D:-Glucoisomeare

Correct Answer:- Option-B

Question4:-The following detectors are used in monosaccharide analysis by HPLC (High Pressure Liquid Chromatography)

A:-UV-vis

B:-TCD

C:-RI

D:-PID

Correct Answer:- Option-C

Question5:-Non enzymic browning involves reaction of reducing sugar with following class of amino acids

A:-Lysine, Arginine, Ornithine

B:-Aspartic acid, Glutamic acid, Cysteine

C:-Cysteine, Methionine, Aspartic acid

D:-Valine, Leucine and Tryptophan

Correct Answer:- Option-A

Question6:-Which of the following is simplest sugar?

A:-Glucose

B:-Fructose

C:-Maltose

D:-Lactose

Correct Answer:- Option-A

Question7:-Acid value test is done for estimation of

A:-Blanching

B:-Rancidity

C:-Pasteurization

D:-All of the above

Correct Answer:- Option-B

Question8:-Monosodium Glutamate (MSG) provides following flavor

A:-Sweet

B:-Salt

C:-Umami

D:-Sour

Correct Answer:- Option-C

Question9:-BIS stands for

A:-Basic Institution Standards

B:-Bureau of Indian Standards

C:-Bureau of International Standards

D:-Basic International Standards

Correct Answer:- Option-B

Question10:-In which year FSSAI was established

- A:-2005
- B:-2006
- C:-2007
- D:-2008

Correct Answer:- Option-D

Question11:-An example for enriched medium

A:-Selenite F broth

B:-Blood agar

C:-Nutrient agar

D:-Mac Conkey agar

Correct Answer:- Option-B

Question12:-The maximum magnification obtainable by bright field microscopy using oil immersion objective

A:-100X

B:-1000X

C:-400X

D:-10000X

Correct Answer:- Option-B

Question13:-Schaeffer Fulton's staining method is for demonstration of

A:-Bacterial capsule

B:-Bacterial flagella

C:-Bacterial endospore

D:-Slime layer

Correct Answer:- Option-C

Question14:-The following statements are correct regarding botulism

- i. Causative agent is *Clostridium Botulinum*
- ii. Pre-formed toxins cause the disease
- iii. The toxins are neurotoxins

A:-Both i and ii

B:-Both i and iii

C:-Both ii and iii

D:-All the statements are correct

Correct Answer:- Option-D

Question15:-Bacterial growth curve consists of the following phases in the order

A:-Log phase, lag phase, decline phase, stationary phase

B:-Lag phase, log phase, stationary phase, decline phase

C:-Lag phase, log phase, decline phase, stationary phase

D:-Lag phase, stationary phase, log phase, decline phase

Correct Answer:- Option-B

Question16:-Secondary stain used in acid fast staining

A:-Saffranin

B:-Crystal violet

C:-Concentrated carbol fuchsin

D:-Loeffler's alkaline methylene blue

Correct Answer:- Option-D

Question17:-Widal test

- i. Detects Salmonella enterica serovar typhi infection
- ii. Measures the capacity of antibodies against LPS and flagella in the serum
- iii. Is a precipitation test
- iv. Is a tube agglutination test

A:-Only i

B:-Both i and ii

C:-Both i and iii

D:-i, ii and iv

Correct Answer:- Option-D

Question18:-The method for cultivation of anaerobic bacteria

A:-Robertson cooked meat medium

B:-McIntosh and Filde's jar

C:-Gas-pak system

D:-All of the above

Correct Answer:- Option-D

Question19:-Yeast is used to produce

A:-Penicillin

B:-Acetic acid

C:-Ethyl alcohol

D:-Butanol

Correct Answer:- Option-C

Question20:-Most important microorganism involved in the production of Yogurt

A:-Penicillium notatum

B:-Saccharomyces cerevisiae

C:-Lactobacillus bulgaricus

D:-Acetobacter aceti

Correct Answer:- Option-C

Question21:-Pure sodium benzoate which is used as chemical preservative in preservation of fruit juice beverages is practically

A:-Tasteless

B:-Odourless

C:-Both Tasteless and Odourless

D:-None of these

Correct Answer:- Option-C

Question22:-To make a good jelly _____ is most essential constituent.

A:-Sugar

B:-Pectin

C:-Water

D:-Acid

Correct Answer:- Option-B

Question23:-In Food Preservation, irradiation is used for

A:-Sprout inhibition

B:-Insect disinfestations

C:-Both 1 and 2

D:-None of these

Correct Answer:- Option-D

Question24:-In high pressure processing, food products are packed in

A:-Aseptic packages

B:-Flexible or semi rigid package

C:-Both 1 and 2

D:-None of these

Correct Answer:- Option-C

Question25:-The storage properties of oils are improved by addition of

A:-Antioxidants

B:-Colour

C:-Stabilizers

D:-Flavour

Correct Answer:- Option-A

Question26:-In Squash preparation, the juice content should be

A:-Less than 25 percent

B:-More than 25 percent

C:-25 percent

D:-Both 2 and 3

Correct Answer:- Option-D

Question27:-Which of the following do not consist the pulse processing?

A:-Soaking

B:-Peeling

C:-Chemical application

D:-Oil application

Correct Answer:- Option-B

Question28:-Nets are used to pack the

A:-Garlic

B:-Onions

C:-Both 1 and 2

D:-Strawberry

Correct Answer:- Option-C

Question29:-In Puff dying process, small piece of product is exposed to ______ for short time.

A:-High temperature

B:-High pressure

C:-Both 1 and 2

D:-Low temperature

Correct Answer:- Option-C

Question30:-Resistance of butter oil to oxidation can be improved by the addition of

A:-Ethyl gallate

B:-Hydroquinone

C:-Nor Dihydroguiaretic acid

D:-All of these

Correct Answer:- Option-D

Question31:-In mixing operation, the most commonly used design of mixing vessel is

A:-Vertical cylindrical tank

B:-Horizontal cylindrical tank

C:-Vertical cylindrical tank with dished bottom

D:-None of these

Correct Answer:- Option-C

Question32:-_____ force is generally used for course, medium and fine grinding of a variety of food materials.

A:-Compressive

B:-Impact

C:-Shear

D:-None of these

Correct Answer:- Option-B

Question33:-_____ pressure filter has found very wide applications in food industries.

A:-Horizontal plate

B:-Shell and tube

C:-Edge

D:-Vertical plate

Correct Answer:- Option-D

Question34:-Liquids likely to result in severe scaling are best processed in ______ evaporators.

A:-Open pan

B:-Natural circulation

C:-Forced circulation

D:-None of these

Correct Answer:- Option-C

Question35:-In dairy industry, for the separation of cream from milk, ______ centrifugal separator have been applied widely.

A:-Tubular bowl

B:-Disc bowl

C:-Conveyor bowl

D:-Cylindrical bowl

Correct Answer:- Option-B

Question36:-Grading of food material is based on

A:-Maturity

B:-Size and shape

C:-Texture and colour

D:-All of these

Correct Answer:- Option-D

Question37:-In food processing, the heat is transferred by

A:-Conduction mode

B:-Convection mode

C:-Both 1 and 2

D:-None of these

Correct Answer:- Option-C

Question38:-Heat transfer rate in fluids by natural convection which depends on _____ of fluids.

A:-Density

B:-Thermal conductivity

C:-Both 1 and 2

D:-None of these

Correct Answer:- Option-C

Question39:-The mass transfer occurring in presence of bulk fluid motion is called as ______ mass transfer.

A:-Conductive

B:-Convective

C:-Both 1 and 2

D:-None of these

Correct Answer:- Option-B

Question40:-Liquid - solid mass transfer is important in

A:-Filtration

B:-Sedimentation

C:-Crystallization

D:-Both 2 and 3

Correct Answer:- Option-D

Question41:-Who are main in-charge of food safety of every state of India?

A:-Food Safety Officer

B:-CEO of FSSAI

C:-State Minister

D:-Commissioner of Food Safety

Correct Answer:- Option-D

Question42:-What is the full form of FosTaC?

A:-Food Safety Training and Commission

B:-Food Safety Training and Certification

C:-Food Safety Trading and Certification

D:-Food Safety Trading and Commission

Correct Answer:- Option-B

Question43:-To promote food safety and healthy food, FSSAI has been launched a training programme under which scheme

A:-Swachh Bharat

B:-Jaago Grahak Jaago

C:-Ayushman Bharat

D:-Satvik Khaana

Correct Answer:- Option-C

Question44:-Regulation on food safety and standards for labeling established labeling requirement of packed food, excluding

A:-Percent contribution to RDA

B:-Nutritional labeling

C:-Labeling of heavy metal

D:-Labeling of genetically modified food

Correct Answer:- Option-C

Question45:-The basic purpose of food safety standards are

- 1. To promote unfair trade in food.
- 2. To prevent deceptive product.
- 3. Protection of public health and risk.
- 4. To improve the quality of food.

A:-Option 3 and 4 are true

B:-Option 2 and 3 are true

C:-Only option 1 is false

D:-Only option 3 is true

Correct Answer:- Option-B

Question46:-The food authority shall contain how many members from food industry

A:-1

- B:-2
- C:-3

D:-5

Correct Answer:- Option-B

Question47:-FSSAI has issued a set of guidelines regarding recall of which products from market place

A:-Unsafe food product

B:-Unsafe drinking water

C:-Unsafe labeling

D:-Unsafe packaging

Correct Answer:- Option-A

Question48:-What has been banned by FSSAI for tea bag?

A:-Herbal tea leaves

B:-Use of stapler pins

C:-Thread for dipping

D:-Cloth bag

Correct Answer:- Option-B

Question49:-FSSAI has launched which logo for fortified foods?

A:-Circle with an F and + sign with a ring

B:-Square with an F and + sign with a ring

C:-Rectangle with an F and + sign with a ring

D:-None of the above

Correct Answer:- Option-B

Question 50:-Which of the following food are fortified in India?

A:-milk and oil

B:-salt

C:-wheat flour and rice

D:-all of these

Correct Answer:- Option-A

Question51:-Which of the following is best source of Vitamin A?

A:-Cauliflower

B:-Carrot

C:-Bean

D:-All of the above

Correct Answer:- Option-B

Question52:-Percentage of acetic acid in commercially available vinegar is

A:-5%

B:-4%

C:-10%

D:-40%

Correct Answer:- Option-B

Question53:-One gram of alcohol give how many calories

A:-20 Kcal

B:-7 Kcal

C:-4 Kcal

D:-9 Kcal

Correct Answer:- Option-B

Question54:-The DART book is used to detect

A:-Quality

B:-Contamination

C:-Adulteration

D:-Hazard

Correct Answer:- Option-C

Question55:-What is food toxicity?

A:-adverse reaction to food due to the presence of naturally occurring toxins in food

B:-adverse reaction to food due to the presence of adulterants in food

C:-adverse reaction to food due to the presence of contaminants in food

D:-all of the above

Correct Answer:- Option-A

Question56:-Which act related to food repealed in FSSAI, 2006?

A:-PFA Act 1954

B:-FPO Act 1955

C:-Both 1 and 2

D:-None of the above

Correct Answer:- Option-C

Question57:-The functional food and nutracuetical food are explained in which section

A:-Section 60

B:-Section 71

C:-Section 22

D:-Section 32

Correct Answer:- Option-C

Question58:-The main purpose of FSMS

A:-to ensure the manufacture

B:-storage

C:-distribution and sell of safe food

D:-all of the above

Correct Answer:- Option-D

Question59:-Which section of FSSAI, 2006 deals with duties and functions of food authority?

A:-Section 16

B:-Section 14

C:-Section 13

D:-Section 18

Correct Answer:- Option-A

Question60:-Section 25 of FSSAI deals with

A:-emergency prohibition notice and order

B:-liability of food safety officer in certain cases

C:-food recall procedure

D:-all import of articles of food to be subject to this act

Correct Answer:- Option-D

Question61:-Any person who manufactures for sale or distribute any article of substandard food for consumption is liable to extend of

A:-2.5 lakh rupees and 6 month imprisonment

B:-2.5 lakhs rupees only

C:-5 lakh rupees and 6 month imprisonment

D:-5 lakh rupees only

Correct Answer:- Option-D

Question62:-The food safety authority comprises of 22 members of which women shall make up to

A:-one third

B:-three forth

C:-two third

D:-half

Correct Answer:- Option-A

Question63:-The provision of single window system for applying for import clearance is

A:-IEC

B:-FSMS

C:-SWIFT

D:-FosTaC

Correct Answer:- Option-C

Question64:-The food analyst should cause to be analyzed the sample shall send copies of result to

A:-Food safety officer

B:-Assistant Commissioner

C:-Designated Officer

D:-Commissioner

Correct Answer:- Option-C

Question65:-The head quarter of FSSAI is located at

A:-Mumbai

B:-Chennai

C:-New Delhi

D:-Faridabad

Correct Answer:- Option-C

Question66:-HACCP is

A:-Compulsory

B:-Essential and non voluntary

C:-Non essential and compulsory

D:-Voluntary

Correct Answer:- Option-B

Question67:-In which year CODEX was setup?

A:-1970

B:-1830

C:-1953

D:-1963

Correct Answer:- Option-D

Question68:-Full form of FFRC is

A:-Food Firm Registration Certificate

B:-Food Fortification Resource Centre

C:-Food Fermentation Resource Centre

D:-None of the above

Correct Answer:- Option-B

Question69:-Which test is used to determine adulteration in ghee?

A:-Hausner ratio

B:-Boudin test

C:-Adulteration

D:-All of the above

Correct Answer:- Option-B

Question70:-Which of following initiatives has been launched by World Health Organization?

A:-Eat Right India

B:-Five Key to Safer Food

C:-Clean Street Food Hub

D:-All of the above

Correct Answer:- Option-B

Question71:-Which standards specifies requirement for prerequisite programme to assist in controlling food safety risk within the manufacturing process of international food supply chain?

A:-ISO - 22000

B:-Public available specification (220)

C:-FSMS

D:-CODEX

Correct Answer:- Option-B

Question72:-The international body which involved in harmonizing food standards worldwide is

A:-ISO

B:-WHO

C:-CODEX

D:-IUFS

Correct Answer:- Option-C

Question73:-Who provide the list of banned products in India?

A:-FSSAI

B:-DGFT

C:-EIC

D:-APEDA

Correct Answer:- Option-B

Question74:-FSSAI established how many central food analysis laboratories

A:-10

B:-24

C:-4

D:-12

Correct Answer:- Option-C

Question75:-ISO standard for laboratory requirement

A:-18000

B:-17025

C:-17700

D:-17252

Correct Answer:- Option-B

Question76:-Atomic absorption spectrophotometer is used to determine

A:-Calcium

B:-Iron

C:-Zinc

D:-Both iron and zinc

Correct Answer:- Option-D

Question77:-The adulteration of maida with stone and sand can be inferred by

A:-Gluten content

B:-Total ash

C:-Acid insoluble ash

D:-Dietary fiber

Correct Answer:- Option-C

Question78:-Cold test of fat is used to measure

A:-resistance of oil to crystallization

B:-freezing point of oil

C:-total saturated fat

D:-viscosity of oil

Correct Answer:- Option-A

Question79:-As per FSSAI limit for individual pesticide residue in packaged drinking water

A:-1 PPM

B:-0.1 PPB

C:-0.1 PPM

D:-1 PPB

Correct Answer:- Option-B

Question80:-The region for electromagnetic spectrum for nuclear magnetic resonance is

A:-Radio frequency

B:-Microwave

C:-Infrared

D:-UV rays

Correct Answer:- Option-A

Question81:-Which of the following can not show vibrational absorption spectrum?

A:-OCS

B:-*H*₂*O*

C:-*CO*₂

 $\mathsf{D}\text{:-}{}^{CH_2=CH_2}$

Correct Answer:- Option-D

Question82:-Which of the following is not a component of emission system in flame photometer?

A:-Burner

B:-Automizer

C:-Fuel gases

D:-Chopper

Correct Answer:- Option-D

Question83:-Chromatography is a physical method that is used to separate and analyze

A:-Complex mixture

B:-Simple mixture

C:-Viscous mixture

D:-Metal ions

Correct Answer:- Option-A

Question84:-Which of the following cannot be used as an adsorbent in Column adsorption chromatography?

A:-Magnesium oxide

B:-Silica gel

C:-Potassium permanganate

D:-Activated alumina

Correct Answer:- Option-C

Question85:-Which of the following is not true about High Pressure liquid chromatography (HPLC)?

A:-It requires high pressure for the separation of the specious

B:-There is no need to vaporise the samples

C:-It is performed in columns

D:-It has high sensitivity

Correct Answer:- Option-B

Question86:-Blood is a

A:-Newtonian fluid, false

B:-Rheopectic True

C:-Pseudo plastic, false

D:-Casson plastic, true

Correct Answer:- Option-D

Question87:-The PCR technique was developed by

A:-Kohler

B:-Altman

C:-Milstein

D:-Kary Mullis

Correct Answer:- Option-D

Question88:-Which of the following is the basic requirement of PCR reaction?

A:-Two oligo nucleotide primers

B:-DNA segment to be amplified

C:-A heat stable DNA polymerase

D:-All of the above

Correct Answer:- Option-D

Question89:-Which among the following radioactive isotopes is commonly used in radioimmunoassay?

A:-lodine-125

B:-Sulpher-35

C:-Phosphorous-32

D:-Nitrogen-14

Correct Answer:- Option-A

Question90:-Western blotting is used for detection of

A:-Special glycolipid in sample

B:-Specific protein in sample

C:-Specific DNA in sample

D:-Specific RNA in sample

Correct Answer:- Option-B

Question91:-Which constitutional amendment makes no reservation for scheduled caste people in Panchayaths in Arunachal Pradesh?

A:-83rd

B:-95th

C:-85th

D:-77th

Correct Answer:- Option-A

Question92:-Article 350(A) of the Indian Constitution deals with

A:-Facilities for instruction in mother tongue at primary stage

B:-Special officer for linguistic minorities

C:-Directive for development of Hindi language

D:-Language for redressal of grievances

Correct Answer:- Option-A

Question93:-If a new state in India needs to be created, reorganised or altered which schedule of the Indian Constitution must be amended?

A:-Schedule 6

B:-Schedule 2

C:-Schedule 3

D:-Schedule 1

Correct Answer:- Option-D

Question94:-Article 249 of the Indian Constitution deals with

A:-Power of Parliament to Legislate with respect to any matter in the State list if a proclamation of emergency is in operation

B:-Residuary power of legislation

C:-Power of Parliament to Legislate with respect to a matter in state list in the National interest

D:-Legislation for giving effect to international agreements

Correct Answer:- Option-C

Question95:-Which of the following items are included in the Union list of India?

- I. Foreign Affairs
- II. Foreign loans
- III. Taxes on Income other than Agricultural Income
- IV. Adulteration of food stuffs and other goods

A:-I, II, IV

B:-I, II, III

C:-I and II only

D:-All of the above

Correct Answer:- Option-B

Question96:-If any question arises as to whether a member of either house of parliament has become subject to any disqualification the question shall be referred for the final decision of?

A:-Speaker

B:-Prime Minister

C:-The President of India

D:-Supreme Court

Correct Answer:- Option-C

Question97:-Article 40 belongs to which part of the Indian Constitution?

A:-Part - IV

B:-Part - III

C:-Part - II

D:-Part - V

Correct Answer:- Option-A

Question98:-The power of the Supreme Court of India to decide the dispute between the Centre and States comes under which jurisdiction

A:-Appellate Jurisdiction

B:-Original Jurisdiction

C:-Special leave to appeal

D:-Executive Jurisdiction

Correct Answer:- Option-B

Question99:-The Right to Information Act 2005 was passed during the Presidentship of?

A:-K.R. Narayanan

B:-Pratibha Patil

C:-Pranab Mukherjee

D:-A.P.J. Abdul Kalam

Correct Answer:- Option-D

Question100:-Which of the following statements are correct regarding the POCSO Act 2012?

- ١. Children according to the POCSO Act are those aged below 18 years
- Π.
- The POCSO Act is gender neutral The Act provides for the establishment of special courts for the trial of such III. offences
- The Power to make rules lies with the Central Government IV.
 - A:-I, III, IV
 - B:-I, IV
 - C:-I, II, III
 - D:-All of the above
 - Correct Answer:- Option-D