

**FINAL ANSWER KEY**

Question Paper Code: 91/2022/OL  
Category Code: 616/2021  
Exam: Food Safety Officer (SR for SC/ ST)  
Date of Test: 18-11-2022  
Department: Food Safety  
Alphacode: A

Question1:-The process of preserving food by rapid freezing followed by dehydration in vacuum is called as

- A:-Dehydrofreezing
- B:-Cryopreservation
- C:-Lyophilization
- D:-Cold sterilization

Correct Answer:- Option-C

Question2:-Sauerkraut contain

- A:-2-3% salt and <1.5% Lactic acid
- B:-2-3% salt and >1.5% Lactic acid
- C:-2-3% salt and >1.5% Acetic acid
- D:-2-3% salt and <1.5% Acetic acid

Correct Answer:- Option-B

Question3:-The complete active enzyme containing both protein and non protein part is known as

- A:-Apoenzyme
- B:-Co-factor
- C:-Enzyme
- D:-Holoenzyme

Correct Answer:- Option-D

Question4:-The TSS content of Squash is

- A:-60 - 70%
- B:-40 - 50%
- C:-10 - 20%
- D:-5 - 10%

Correct Answer:- Option-B

Question5:-This is a FDA approved non nutritive sweetener which is approximately 20,000 times sweeter than table sugar

- A:-Saccharin
- B:-Acesulfame-K
- C:-Advantame
- D:-Sucralose

Correct Answer:- Option-C

Question6:-The ideal refrigerated storage temperature for perishable food is between

- A:-1 to 4° C
- B:-1 to - 4° C
- C:- 4 to - 8° C
- D:- 6 to - 24° C

Correct Answer:- Option-A

Question7:-This type of packaging material is hard, moisture resistant, low gas permeable and high impact strength

- A:-Poly ethylene
- B:-Poly propylene
- C:-Polyvinyl chloride
- D:-polystyrene

Correct Answer:- Option-C

Question8:-Texturized vegetable protein is made from

- A:-Soya bean
- B:-Wheat
- C:-Oats
- D:-All the above

Correct Answer:- Option-D

Question9:-Garlic contains this active compound which acts as antimicrobial agent

- A:-Allicine
- B:-Limonene
- C:-Cymene
- D:-Anethole

Correct Answer:- Option-A

Question10:-In pulse milling mixing with red earth is known as

- A:-Wet milling
- B:-Dry milling
- C:-Polishing
- D:-Pitting

Correct Answer:- Option-A

Question11:-This is an effective mould inhibitor used in the bakery products

- A:-Benzoate
- B:-Citric acid
- C:-Propionate
- D:-Phosphoric acid

Correct Answer:- Option-C

Question12:-Wheat proteins are low in this amino acid

- A:-Glutamic acid
- B:-Tryptophan
- C:-Isoleucine
- D:-None of the above

Correct Answer:- Option-B

Question13:-According to FSS Act the percentage of solids present in tomato juice is

- A:-1 - 3%
- B:-5 - 10%
- C:-10 - 15%
- D:-15 - 20%

Correct Answer:- Option-B

Question14:-Consumption of this vegetable in fresh or uncooked form leads to Favism

- A:-Lentils
- B:-Soya beans
- C:-Faba beans
- D:-Lima bean

Correct Answer:- Option-C

Question15:-The radiation dose used to delay sprouting in vegetables and ripening in fruits is

- A:-Less than 1 kGy
- B:-1 kGy - 5kGy
- C:-5 kGy - 10 kGy
- D:-More than 10 kGy

Correct Answer:- Option-A

Question16:-Achieving food safety is multi-sectoral effort requiring expertise from disciplines such as

- A:-Toxicology, Health, Parasitology

B:-Microbiology, Nutrition, Medicine

C:-Both 1 and 2

D:-None

Correct Answer:- Option-C

Question17:-This organization aims to facilitate global prevention, detection and response to public health threats associated with unsafe foods.

A:-WTO

B:-WHO

C:-FPO

D:-NCC

Correct Answer:- Option-B

Question18:-The main function of FASSAI is

A:-To frame regulation to lay down standards of food safety

B:-To grant safety license and certification

C:-To promote awareness about food safety and standards

D:-All the above

Correct Answer:- Option-D

Question19:-According to FSS Act 2006, any material which is or could be employed for making the food unsafe or substandard or misbranded or containing extraneous matter is called as

A:-Adulterant

B:-Contaminant

C:-Additive

D:-Toxicant

Correct Answer:- Option-A

Question20:-The seller shall be liable under FSS Act for any article of food which is

A:-Sold after the date of expiry

B:-Misbranded

C:-Both 1 and 2

D:-None of the above

Correct Answer:- Option-C

Question21:-How many members are present in FSS authority apart from Chairperson ?

A:-25

B:-22

C:-27

D:-30

Correct Answer:- Option-B

Question22:-This is an NABL accredited laboratory in Kerala

A:-Technext Analytical and Research Laboratory

B:-Neogen Food and Animal Security India Pvt. Limited

C:-Auriga Research Limited

D:-Nawal Analytical Laboratories

Correct Answer:- Option-B

Question23:-In FSS Authority, who is responsible for inspection of food business, drawing samples and sending it to analyst ?

A:-Food Safety Officer

B:-Commissioner of Food Safety

C:-Chief Executive Officer

D:-Presiding Officer

Correct Answer:- Option-A

Question24:-Food Safety Management Systems means adoption of

A:-GHP

B:-GMP

C:-HACCP

D:-All the above

Correct Answer:- Option-D

Question25:-Indian Evidence Act came into force on

A:-30<sup>th</sup> November, 1872

B:-1<sup>st</sup> September, 1872

C:-2<sup>nd</sup> October, 1872

D:-None of the above

Correct Answer:- Option-B

Question26:-Risk assessment, risk management, risk communication are the general principles of

A:-Hazard analysis

B:-Food Safety Act

C:-Critical control

D:-Hazard characterization

Correct Answer:- Option-B

Question27:-FSSAI launched "Clean Street Food" project to raise the safety standards of foods sold on streets across

A:-Mumbai

B:-Chennai

C:-New Delhi

D:-Bangalore

Correct Answer:- Option-C

Question28:-No court shall take cognizance of an offence under FSS Act after the expiry of the period of \_\_\_\_\_ from the date of commission of an offence.

A:-One month

B:-Five months

C:-One year

D:-Two years

Correct Answer:- Option-C

Question29:-The punishment for carrying out a business without licence is

A:-5 lacs fine and 6 months imprisonment

B:-1 lac fine and 3 months imprisonment

C:-2 lacs fine and no imprisonment

D:-1 lac fine and no imprisonment

Correct Answer:- Option-A

Question30:-In which state FSSAI has launched the first "Verified Milk Vendors Scheme" to bring unorganized milk suppliers under one programme ?

A:-Uttar Pradesh

B:-Rajasthan

C:-Andhra Pradesh

D:-Gujarat

Correct Answer:- Option-D

Question31:-Which of the following statement is/are correct about Nisin ?

- Nisin is a food bio-preservative.
- It is produced by strains of *Lactococcus lactis* sub spp *lactis* and generally recognised as safe substance.
- It is a broad spectrum antibiotic with wide spectrum of activity against food spoilage/pathogenic organisms.

A:-Only (i and ii)

B:-Only (i and iii)

C:-Only (ii and iii)

D:-All of the above (i, ii and iii)

Correct Answer:- Option-A

Question32:-Which of the following statement is wrong about the effect of Homogenization of milk ?

A:-The colour becomes whiter

- B:-The fat globules lose their ability to clump
- C:-There is chance for formation of cream plug
- D:-Fat recovery is a problem after homogenization

Correct Answer:- Option-C

Question33:-Which of the following statement is/are wrong about probiotic yoghurt ?

- i. Streptococcus thermophilus and Lactobacillus bulgaricus are the only bacterial cultures used for the preparation of probiotic yoghurt.
- ii. Probiotic yoghurt contains probiotic and prebiotic components which beneficially affects human health.
- iii. Consumption of yoghurt with probiotic count  $10^8$  cfu/g is recommended to get therapeutic benefit.

- A:-Only (i)
- B:-Only (iii)
- C:-Only (i and ii)
- D:-None of the above

Correct Answer:- Option-C

Question34:-An improved method of ghee preparation in which ghee is separated into three layers

- A:-Creamery butter method
- B:-Direct cream method
- C:-Desi method
- D:-Pre stratification method

Correct Answer:- Option-D

Question35:-Which process step is not involved in spray drying milk ?

- A:-Concentration of milk
- B:-Atomizing the concentrate
- C:-Mixing atomized liquid with cool air
- D:-Separating powder and air

Correct Answer:- Option-C

Question36:-A test to differentiate jaundice and carotene pigmentation in meat

- A:-Resazurin test
- B:-Peroxide test
- C:-Rimington and Fowrie test
- D:-Rothera's test

Correct Answer:- Option-C

Question37:-Total condemnation of meat should be done in

- A:-Anasarca
- B:-Antracosis
- C:-Abscess
- D:-All the above

Correct Answer:- Option-A

Question38:-The predominant driver for postmortem proteolysis and tenderization of meat

- A:-Lysosomal cathepsins
- B:-Calpain system
- C:-Heat shock proteins
- D:-Proteosomes

Correct Answer:- Option-B

Question39:-The cherry red colour of meat packed in high oxygen MAP pack is due to

- A:-Myoglobin
- B:-Oxymyoglobin
- C:-Metmyoglobin
- D:-NO-myoglobin

Correct Answer:- Option-B

Question40:-Drip loss is relatively high in

- A:-Pork
- B:-Poultry meat
- C:-Lamb
- D:-Beef

Correct Answer:- Option-D

Question41:-Antibiotic streptomycin is

- A:-Protein
- B:-Steroid
- C:-Glycoside
- D:-None of these

Correct Answer:- Option-C

Question42:-Fat in liquid state is

- A:-Oil
- B:-Sterols
- C:-Wax
- D:-Bacon

Correct Answer:- Option-A

Question43:-Steroid nucleus contain \_\_\_\_\_ number of carbon atoms.

- A:-17
- B:-21
- C:-18
- D:-16

Correct Answer:- Option-A

Question44:-Omega 3 pentaenoic acid present in fish oil is

- A:-Arachidonic
- B:-Cervonic
- C:-Oleic
- D:-Timnodonic

Correct Answer:- Option-D

Question45:- \_\_\_\_\_ vitamin is a naturally occurring lipid soluble antioxidant.

- A:-B1
- B:-E
- C:-C
- D:-B12

Correct Answer:- Option-B

Question46:-Individual fatty acids can be separated by

- A:-HPLC
- B:-MS-MS
- C:-GLC
- D:-NMR

Correct Answer:- Option-C

Question47:-High intake of polished rice or other refined food items lead to the deficiency of vitamin

- A:-Vitamin B6
- B:-Vitamin E
- C:-Vitamin D
- D:-Vitamin B1

Correct Answer:- Option-D

Question48:- \_\_\_\_\_ can be measured as the ratio of carbon dioxide produced to oxygen consumed.

- A:-RMR

B:-BMR

C:-REE

D:-RQ

Correct Answer:- Option-D

Question49:-Sum of all internal chemical activities that maintain body at rest is

A:-Catabolism

B:-Inertia

C:-Energy expenditure

D:-Basal metabolism

Correct Answer:- Option-D

Question50:-Heterocyclic isoalloxazine ring is present in

A:-Riboflavin

B:-Pyrimidine

C:-Purine

D:-Cholesterol

Correct Answer:- Option-A

Question51:-Most abundant carbohydrate in biosphere is

A:-Starch

B:-Glycogen

C:-Cellulose

D:-Glucose

Correct Answer:- Option-C

Question52:-Carrier of endogenous triglycerides from liver to peripheral tissue

A:-VLDL

B:-LDL

C:-HDL

D:-Chylomicron

Correct Answer:- Option-A

Question53:-Specific dynamic action of protein, fat and carbohydrate is in order

A:-Fat > carbohydrate > protein

B:-Protein > fat > carbohydrate

C:-Protein > carbohydrate > fat

D:-Fat > protein > carbohydrate

Correct Answer:- Option-C

Question54:-Coconut oil contain \_\_\_\_\_ chain triacylglycerides.

A:-Short

B:-Long

C:-Medium

D:-Very long

Correct Answer:- Option-C

Question55:-Humans cannot synthesis vitamin C because of the absence of enzyme.

A:-L-gulonolactone oxidase

B:-Glucokinase

C:-Glucose oxidase

D:-L-gulonolactone reductase

Correct Answer:- Option-A

Question56:-Typhoid is caused by

A:-Salmonella Typhi

B:-Salmonella Typhimurium

C:-Salmonella Paratyphi

D:-Salmonella Pullorum

Correct Answer:- Option-A

Question57:-Which of the following indicator is used in MacConkey agar ?

A:-Phenol red

B:-Brom cresol blue

C:-Neutral red

D:-Brom cresol purple

Correct Answer:- Option-C

Question58:-In which of the following staining reaction, acetone is used as decolourizer ?

A:-Ziehl-Neelsen staining

B:-Levaditi staining

C:-Gram's staining

D:-Castaneda staining

Correct Answer:- Option-C

Question59:-The mordant that is used in Gram's staining is

A:-Gram's iodine

B:-Potassium iodide

C:-Carbol fuchsin

D:-Crystal violet

Correct Answer:- Option-A

Question60:-Types of botulinum neurotoxins produced by clostridium botulinum

A:-Types A-G

B:-Types 1-5

C:-Types- $\alpha$ ,  $\beta$ ,  $\Gamma$ ,  $\delta$

D:-Types- $\delta$ ,  $\theta$ ,  $\lambda$

Correct Answer:- Option-A

Question61:-The lowest temperature that is required to kill a population of microbes when applied for a specific time Nosocomial infection.

A:-Critical temperature

B:-Critical time

C:-Thermal death time

D:-Thermal death point

Correct Answer:- Option-D

Question62:-By which of the following test, the basic potability of water is tested ?

A:-Staphylococcal count

B:-Clostridium count

C:-Coliform count

D:-Salmonella count

Correct Answer:- Option-C

Question63:-Which of the following is not a paralytic illness ?

A:-Botulism

B:-Neurolythyrim

C:-Tetanus

D:-Brucellosis

Correct Answer:- Option-D

Question64:-Which of the following is true ?

- i. Bacillus, clostridium
- ii. Brucella, Vibrio
- iii. Escherichia coli, salmonella

A:-(i) and (ii) are Gram's positive but (i) only is spore forming

B:-(ii) and (iii) are Gram's negative but (iii) only is spore forming

C:-(ii) and (iii) are Gram's negative but (iii) is non-spore forming

D:-Both (i) and (ii) are Gram's positive and spore forming

Correct Answer:- Option-C

Question65:-Which of the following is not an enzyme used in enzyme linked immuno sorbent assay ?

A:-Alkaline phosphatase

B:-Horse radish peroxidase

C:-Beta galactosidase

D:-Glutamate dehydrogenase

Correct Answer:- Option-D

Question66:-Pre-baiting in rodent control is conducted to prevent

A:-Bait shyness

B:-Distress

C:-Bait spillage

D:-Damage to bait station

Correct Answer:- Option-A

Question67:-Insect which feed on cured meat

A:-Rhizopertha dominica

B:-Necrobia rufipes

C:-Oryzaephilus surinamensis

D:-Lasioderma serricorne

Correct Answer:- Option-B

Question68:-Indian meal moth is

A:-Plodia interpunctella

B:-Corcyra cephalonica

C:-Sitotroga cerealella

D:-Ephestia cautella

Correct Answer:- Option-A

Question69:-The most commonly used acute rodenticide

A:-Norbromide

B:-Barium carbonate

C:-Zinc phosphide

D:-Brodifacoum

Correct Answer:- Option-C

Question70:-An example of a live trap to capture rodents

A:-Tangore bow trap

B:-Break back snap trap

C:-Scissor trap

D:-Wonder trap

Correct Answer:- Option-D

Question71:-Which of the following statement is correct about Union Parliament ?

A:-The Indian Parliament comprises of the President, Lok Sabha and Rajya Sabha

B:-The Indian Parliament comprises of Lok Sabha and Rajya Sabha

C:-The Indian Parliament comprises of the President, Vice-President, Lok Sabha and Rajya Sabha

D:-None of the above

Correct Answer:- Option-A

Question72:-Who is the final authority to decide whether a bill is money bill or not ?

A:-Prime Minister

B:-Finance Minister

C:-Speaker of Lok Sabha

D:-The President of India

Correct Answer:- Option-C

Question73:-Consider 86<sup>th</sup> Constitutional Amendment Act, 2002

- i. It brought changes in Part-II of the Constitution
  - ii. It brought changes in Part-III of the Constitution
  - iii. It brought changes in Part-IV of the Constitution
  - iv. It brought changes in Part-IV-A of the constitution
- Select the correct Answer

- A:-ii only
- B:-ii, iii and iv only
- C:-i, ii, iii and iv
- D:-i only
- Correct Answer:- Option-B

Question74:-An American citizen staying in India cannot claim Right to

- i. Freedom of trade and profession (Art. 19)
  - ii. Equality before law and equal protection of law (Art. 14)
  - iii. Protection of life and personal liberty (Art. 21)
  - iv. Protection in respect of conviction for offences (Art. 20)
  - v. Equality of opportunity in matters of public employment (Art. 16)
- Select the correct answer :

- A:-i only
- B:-ii and iv only
- C:-i and v only
- D:-All of the above
- Correct Answer:- Option-C

Question75:-With reference to the Constitution of India, which one of the following pairs is not correctly matched ?

- i. Forest - Concurrent list
- ii. Stock exchange - Concurrent list
- iii. Post office savings bank - Union list
- iv. Education - State list

- A:-ii only
- B:-ii and iv only
- C:-i and ii only
- D:-i, ii and iv only
- Correct Answer:- Option-B

Question76:-Governor is supposed to reserve a State bill for the consideration of the President :

- i. If it endangers the position of High Court
  - ii. If it is opposed to Directive Principles of State Policy
  - iii. If it is Ultra-vires
  - iv. If it is against opposition political parties
- Select correct answer :

- A:-i and ii only
- B:-ii only
- C:-i, ii, iii and iv
- D:-i, ii and iii only
- Correct Answer:- Option-D

Question77:-Which of the following enjoys the constitutional status ?

- i. Finance commission
- ii. NITI Aayog
- iii. National Development Council
- iv. Election Commission
- v. National Human Rights Commission
- vi. Comptroller and Auditor General of India

- A:-i, iii, iv and vi
- B:-i, iv and vi
- C:-i, ii and vi
- D:-All of the above
- Correct Answer:- Option-B

Question78:-Select the correct statement regarding fundamental rights :

- i. They are enforceable in the court of law
- ii. These rights are not absolute
- iii. These rights can be suspended during National Emergency except Article 20 and 21
- iv. These rights are available only to Indian citizens
- v. These rights are contained in Part IV of the Constitution

- A:-i, ii and iii
- B:-i and iii only
- C:-i, iii and v only

D:-All of the above

Correct Answer:- Option-A

Question79:-Consider the following statements regarding the Preamble of the Indian Constitution

- "Identity card of the Indian Constitution"
- Terms socialist, secular and integrity added by the 44<sup>th</sup> Constitution Amendment Act, 1979
- Preamble is not part of the Constitution
- "Heart and soul of the Indian Constitution"
- It specifies the objectives of the Constitution

Which of the statement given above is/are correct ?

A:-i, ii and v only

B:-i, ii, iv and v

C:-i and v only

D:-All of the above

Correct Answer:- Option-C

Question80:-Corporation Tax :

A:-is levied and appropriated by the States

B:-is levied by the Union but collected and appropriated by the States

C:-is levied by the States and shared by the Union and States

D:-is levied by the Union and belongs to it exclusively

Correct Answer:- Option-D

Question81:-If WORK is coded as 4-12-9-16, then how will you code WOMAN ?

A:-4-12-14-26-13

B:-4-26-14-13-12

C:-23-12-26-14-13

D:-23-15-13-1-14

Correct Answer:- Option-A

Question82:-The 20<sup>th</sup> term of the series  $2 \times 4 + 4 \times 6 + 6 \times 8 + \dots$  is

A:-1620

B:-1640

C:-1600

D:-1680

Correct Answer:- Option-D

Question83:-Find the odd among the following.

A:-SORE

B:-SOTLU

C:-NORGAE

D:-MEJNIAS

Correct Answer:- Option-C

Question84:-If today is Saturday, what will be the day 350 days from now ?

A:-Saturday

B:-Monday

C:-Friday

D:-Sunday

Correct Answer:- Option-A

Question85:-Carbon : Diamond :: Corundum : ?

A:-Garnet

B:-Ruby

C:-Pukhraj

D:-Pearl

Correct Answer:- Option-B

Question86:-The length and breadth of a room are 8 meters and 6 meters respectively. A cat runs along all four walls and finally along a diagonal to catch a rat. Then the total distance is covered by the cat is

A:-10 meters

B:-14 meters

C:-38 meters

D:-48 meters

Correct Answer:- Option-C

Question87:-Each consonant of the word TERMINATION is changed to the previous letter in the English alphabetical series and each vowel is changed to the next letter in the English alphabetical series. If the new alphabets thus formed are arranged in alphabetical order (from left to right), which of the following will be the sixth letter from the right end ?

A:-M

B:-S

C:-P

D:-L

Correct Answer:- Option-A

Question88:-Choose the missing letters of the given series out of the given alternatives :  
Z, Y, X, U, T, S, P, O, N, K, ?, ?

A:-J, I

B:-I, H

C:-H, I

D:-H, G

Correct Answer:- Option-A

Question89:-What should come at the place of question mark (?) in the following number series ?  
 $2\sqrt{3}$ ,  $2\sqrt{5}$ ,  $\sqrt{30}$ ,  $\sqrt{42}$ ,  $2\sqrt{14}$ , ?

A:- $3\sqrt{5}$

B:- $\sqrt{60}$

C:- $5\sqrt{3}$

D:- $6\sqrt{2}$

Correct Answer:- Option-D

Question90:-Choose the word opposite in meaning to the word DEBONAIR.

A:-Worried

B:-Unsophisticated

C:-Grim

D:-Pensive

Correct Answer:- Option-B

Question91:-Find the suitable verb from the options given :  
Bread and butter \_\_\_\_\_ my breakfast these days.

A:-forms

B:-form

C:-are

D:-have been

Correct Answer:- Option-A

Question92:-Add the proper question tag :  
No one is ready, ..... ?

A:-isn't they ?

B:-aren't they ?

C:-are they ?

D:-isn't he ?

Correct Answer:- Option-C

Question93:-Which one of the given options is the correct passive voice form of the sentence ?  
How have you solved the problem ?

A:-The problem has been solved by you.

B:-How has the problem been solved by you ?

C:-You have solved the problem.

D:-Have the problem been solved ?

Correct Answer:- Option-B

Question94:-Choose the suitable verb from the options given :  
The principal as well as the teachers \_\_\_\_\_ the meeting.

- A:-have attended
- B:-has attended
- C:-are attending
- D:-attend

Correct Answer:- Option-B

Question95:-What is the correct reported speech of the sentence ?  
"Where did you go yesterday ?", said Raju to Sheela.

- A:-Raju asked Sheela if he had gone the previous day
- B:-Raju asked Sheela where had she gone the previous day
- C:-Raju asked Sheela where had he gone the previous day
- D:-Raju asked Sheela where she had gone the previous day

Correct Answer:- Option-D

Question96:-Choose the correct preposition :  
Bimal has a fondness \_\_\_\_\_ animals.

- A:-for
- B:-about
- C:-of
- D:-at

Correct Answer:- Option-A

Question97:-What is the meaning of the expression 'cloud nine' in the sentence ?  
Divya was on cloud nine when her results came.

- A:-Sad
- B:-Anxious
- C:-Nervous
- D:-Happy

Correct Answer:- Option-D

Question98:-Find the synonym of extravagant.

- A:-arrogant
- B:-faithful
- C:-lavish
- D:-amusement

Correct Answer:- Option-C

Question99:-Which one of the given sentences is grammatically correct ?

- A:-Many a students were absent yesterday
- B:-A pair of shoes is highly expensive
- C:-I have seen the film last week
- D:-This is the spot when the soldier fell dead

Correct Answer:- Option-B

Question100:-Find the correct one word for 'The practice of having many wives'.

- A:-Polygamy
- B:-Bigamy
- C:-Polyandry
- D:-Origami

Correct Answer:- Option-A