

# FINAL ANSWER KEY

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Alphacode	A

Question1:-From which foreign constitution India adopted the concept of Fundamental Rights?

- A:-Ireland
- B:-Canada
- C:-Australia
- D:-America

Correct Answer:- Option-D

Question2:-Which constitutional amendment deleted Article 31 dealing with Right to property from our constitution?

- A:-52nd Amendment
- B:-44th Amendment
- C:-56th Amendment
- D:-73rd Amendment

Correct Answer:- Option-B

Question3:-National Food Security Act came into existence in \_\_\_\_\_

- A:-2003
- B:-2015
- C:-2013
- D:-2014

Correct Answer:- Option-C

Question4:-Which of the following article of Indian constitution deals with President's rule in the state?

- A:-Article 352
- B:-Article 355
- C:-Article 356
- D:-Article 359

Correct Answer:- Option-C

Question5:-Who founded the newspaper Kerala Mitram from Kochi in 1881?

- A:-Devaji Bhimaji
- B:-Varghese Mappila
- C:-K.C. Maman
- D:-C. Parameshwaran Pillai

Correct Answer:- Option-A

Question6:-Who among the following is not a member of the first communist group in Kerala in 1937?

- A:-P. Krishna Pillai
- B:-N.C. Sekhar
- C:-E.M.S. Namboodiripad
- D:-A.K. Gopalan

Correct Answer:- Option-D

Question7:-Nazrani Deepika was first published from \_\_\_\_\_ on 15 April 1887.

- A:-Pala
- B:-Mannanam
- C:-Kaduthuruthy
- D:-Chenganassery

Correct Answer:- Option-B

Question8:-Who translated Abhijanashakuntalam into Malayalam for the first time in Kerala?

- A:-Kunjikuttan Thampuran
- B:-A.R. Rajaraja Varma
- C:-Kerala Varma Valiyakoyi Thampuram
- D:-T. Ganapathisastri

Correct Answer:- Option-C

Question9:-Who was the author of book Kannirum Kinavum?

- A:-Unni Namboodiri
  - B:-V.T. Bhattathiripad
  - C:-M.P. Paul
  - D:-Kesari Balakrishna Pillai
- Correct Answer:- Option-B

Question10:-William T. Ringeltaube belonged to \_\_\_\_\_ Mission Society in Travancore.

- A:-London Mission Society
  - B:-Church Mission Society
  - C:-Basel Evangelical Mission
  - D:-Salvation Army
- Correct Answer:- Option-A

Question11:-Sree Narayana Guru was born in \_\_\_\_\_

- A:-1853
- B:-1861
- C:-1855
- D:-1865

Correct Answer:- Option-C

Question12:-Which of the following author hold the pen name Urub?

- A:-Sivasankaran Pillai
- B:-P. Sankunni Menon
- C:-S. Parameshwaran
- D:-P.C. Kuttikrishnan

Correct Answer:- Option-D

Question13:-Who established the newspaper Swadeshabhimani?

- A:-T.M. Varghese
- B:-Vakkom Abdul Khader Moulavi
- C:-P. Krishna Pillai
- D:-M.T. Varghese

Correct Answer:- Option-B

Question14:-Who introduced 'American Model Government' in Travancore?

- A:-Col. Munro
- B:-Barrister G.P. Pillai
- C:-C.P. Ramaswamy Aiyar
- D:-L.A. Ananthakrishna Aiyar

Correct Answer:- Option-C

Question15:-Which of the following woman was appointed by Mahatma Gandhi in Malabar for individual Satyagraha?

- A:-A.V. Kuttimalu Amma
- B:-Annie Besant
- C:-Annie Philip
- D:-Sarada Krishnan

Correct Answer:- Option-A

Question16:-Who wrote the novel Agnisakshi?

- A:-Sulochana Nalappatt
- B:-M. Leelavathi
- C:-Lalithambika Antharjanam
- D:-Sugathakumari

Correct Answer:- Option-C

Question17:-Who led the Great March of Travancore State Congress to the palace of the Maharaja of Travancore?

- A:-Anna Chandy
- B:-Akkama Cheriyan
- C:-Mary Punnan
- D:-Padmavathi Amma

Correct Answer:- Option-B

Question18:-Which of the following incident of Kerala happened in the year 1925?

- A:-Vaikkom Satyagraha
- B:-Non-Cooperation movement
- C:-Civil Disobedience movement
- D:-Guruvayur Satyagraha

Correct Answer:- Option-A

Question19:-Who founded Sadhu Jana Paripalana Sangam in 1905?

- A:-Dr. Palpu
  - B:-K. Ayyappan
  - C:-Ayyankali
  - D:-Sahodaran Ayyappan
- Correct Answer:- Option-C

Question20:-Which of the following is not related to Sree Narayana Dharma Paripalana Yogam (SNDP)?

- A:-Dr. Palpu
  - B:-K. Ayyappan
  - C:-Kumaranashan
  - D:-Sree Narayana Guru
- Correct Answer:- Option-B

Question21:-What is "Corrective Action" as defined in ISO 22000?

- A:-Action taken to eliminate a detected nonconformity
  - B:-Action taken to improve a process
  - C:-Processes that manage continual improvement
  - D:-All of the above
- Correct Answer:- Option-A

Question22:-Who is the present chairman of NDDB?

- A:-Dr. T. Nandakumar
  - B:-Dr. Dilip Rath
  - C:-Dr. Arun Narke
  - D:-Dr. A.K. Srivastava
- Correct Answer:- Option-B

Question23:-Food Safety System Audits are used to verify

- A:-The no. of persons who wash their hands
  - B:-The extent to which the audit criteria are fulfilled
  - C:-That all the suppliers to the organization have ISO 22000 certification as a must
  - D:-All of above
- Correct Answer:- Option-B

Question24:-Azolla is otherwise known as

- A:-Mosquito fern
  - B:-Golden male fern
  - C:-Ostrich fern
  - D:-Java fern
- Correct Answer:- Option-A

Question25:-The Queen of Indian milk products is

- A:-Sandesh
  - B:-Gulab Jamaun
  - C:-Ras Gulla
  - D:-Shrikhand
- Correct Answer:- Option-B

Question26:-Who is considered as the father of milk condensing process?

- A:-Louis Pasteur
  - B:-John Tyndall
  - C:-Gail Borden
  - D:-John B Mayenberg
- Correct Answer:- Option-C

Question27:-The grandfather of probiotics is

- A:-Fuller
  - B:-Hippocrates
  - C:-Elie Metchnikoff
  - D:-Joseph Lister
- Correct Answer:- Option-C

Question28:-Southern blotting is related to

- A:-Protein
- B:-DNA
- C:-RNA
- D:-Fat

Correct Answer:- Option-B

Question29:-The major immunoglobulin present in bovine milk is

A:-IgA

B:-`"IgG\_1"``

C:-`"IgG\_2"``

D:-IgM

Correct Answer:- Option-B

Question30:-The average size of moisture droplet in butter manufactured using CBMM

A:-20-40  $\mu\text{m}$

B:-80-100  $\mu\text{m}$ ``

C:-50-70  $\mu\text{m}$

D:-2-10  $\mu\text{m}$

Correct Answer:- Option-D

Question31:-The amount of diacetyl per kg of butter in a well-balanced butter flavour

A:-0.1 mg

B:-4.0 mg

C:-2.0 mg

D:-1.0 mg

Correct Answer:- Option-D

Question32:-An example for the member of group Thermobacterium under Orla-Jensen classification

A:-Lactobacillus fermentum

B:-Lactobacillus casei

C:-Lactobacillus plantarum

D:-Lactobacillus helveticus

Correct Answer:- Option-D

Question33:-Present GST applied on SMP is \_\_\_\_\_%

A:-0

B:-5

C:-12

D:-18

Correct Answer:- Option-B

Question34:-Colour imparted by Ponceau 4R

A:-Brown

B:-Violet

C:-Blue

D:-Red

Correct Answer:- Option-D

Question35:-In phase contrast microscopy, the phase shift between deviated and undeviated light is

A:- $\lambda/8$

B:- $\lambda/2$

C:- $\lambda/4$

D:- $\lambda$

Correct Answer:- Option-B

Question36:-Refractive index of immersion oil is about

A:-1.30

B:-1.00

C:-1.05

D:-1.80

Correct Answer:- Option-A

Question37:-An example of acid dye is

A:-Crystal violet

B:-Eosine

C:-Methylene blue

D:-Malachite green

Correct Answer:- Option-B

Question38:-L-ring of flagellum is located at

A:-Peptidoglycan layer

B:-Cell membrane

C:-Lipopolysaccharide portion

D:-Periplasmic space

Correct Answer:- Option-C

Question39:-Milk wine is

A:-Kishk

B:-Koumiss

C:-Kefir

D:-Skyrr

Correct Answer:- Option-C

Question40:-According to FSSR, 2016 the Maximum allowable number of units between m and M (c); for 3-class sampling plan of SPC for sweetened condensed milk is

A:-3

B:-2

C:-1

D:-0

Correct Answer:- Option-A

Question41:-Chemical responsible for putrefactive taint is butter

A:-Isovaleric acid

B:-Sialic acid

C:-Acetyl methyl ketone

D:-Ethyl ester

Correct Answer:- Option-A

Question42:-The given sample of raw cream falls under the grade 'good'. The possible SPC will be

A:-60,000

B:-6,00,000

C:-60,00,000

D:-6,00,00,000

Correct Answer:- Option-B

Question43:-Reddish pink discolouration causing mold in butter is

A:-Serratia

B:-Fusarium

C:-Rhodotorula

D:-Rhizopus

Correct Answer:- Option-B

Question44:-Any one of the accepted pasteurization time-temperature combinations of ice cream mix

A:-71.1 Deg C/30 min

B:-63 Deg C/30 min

C:-85.3 Deg C/20 sec

D:-79.4 Deg C/25 sec

Correct Answer:- Option-D

Question45:-Gas used as a sterilant in treatment of nuts

A:-Ethylene oxide

B:-Carbon di oxide

C:-Propylene oxide

D:-All of these

Correct Answer:- Option-D

Question46:-HLB number of GMS is

A:-13

B:-3

C:-10

D:-23

Correct Answer:- Option-B

Question47:-The 'T and V system' was sponsored by

A:-WHO

B:-USAID

C:-World Bank

D:-IMF

Correct Answer:- Option-C

Question48:-The optimum number of flash cards is

A:-10-12

B:-12-14

C:-14-16

D:-16-18

Correct Answer:- Option-A

Question49:-Which among the following is a non-projected visual aid?

A:-Poster

B:-Film strip

C:-Slides

D:-Transparency

Correct Answer:- Option-A

Question50:-The fundamental objective of Extension is

A:-Dissemination of information

B:-Assist people in problem solving

C:-Change the outlook of people

D:-Development of people

Correct Answer:- Option-D

Question51:-The moral principles, which guide the behaviour of businessmen or business activities in relation to the society is called \_\_\_\_\_.

A:-Intellectual property rights

B:-Labour laws

C:-Business ethics

D:-Code of conduct

Correct Answer:- Option-C

Question52:-The first dairy co-operative society in India was registered in 1913 at \_\_\_\_\_.

A:-Anand

B:-Allahabad

C:-Calcutta

D:-Ahmedabad

Correct Answer:- Option-B

Question53:-In order to tell Excel that we are entering a formula in cell, we must begin with an operator such as

A:-#

B:-=

C:-\$

D:-@

Correct Answer:- Option-B

Question54:-Father of economics is \_\_\_\_\_.

A:-Lionel Robins

B:-Adam Smith

C:-Alfred Marshall

D:-Paul Samuelson

Correct Answer:- Option-B

Question55:-Which among the following is not a mass method of communication?

A:-Farm publication

B:-Mass meeting

C:-Method demonstration

D:-Newspaper

Correct Answer:- Option-C

Question56:-The first step in extension programme planning

A:-Collection of facts

B:-Identification of problems

C:-Analysis of situation

D:-Determination of objectives

Correct Answer:- Option-A

Question57:-If the moisture content on wet basis is 25%, then what should be moisture content on dry basis?

A:-20%

B:-30%

C:-33%

D:-40%

Correct Answer:- Option-C

Question58:-Water activity of pure water is

- A:-Less than one
- B:-Greater than one
- C:-Equal to one
- D:-None of the above

Correct Answer:- Option-C

Question59:-The difference between adsorption and desorption curves is called

- A:-Sorption behaviour
- B:-Re-absorption behaviour
- C:-Wetting behaviour
- D:-Hysteresis behaviour

Correct Answer:- Option-D

Question60:-Bernoulli's equation represents conservation of

- A:-Mass
- B:-Energy
- C:-Force
- D:-Momentum

Correct Answer:- Option-B

Question61:-If the viscosity of a fluid decreases with time, the fluid is called

- A:-Thixotropic
- B:-Rheopectic
- C:-Dilatant
- D:-Bingham fluid

Correct Answer:- Option-A

Question62:-Fourier equation is used to calculate heat transfer by

- A:-Conduction
- B:-Convection
- C:-Radiation
- D:-Convection and Radiation

Correct Answer:- Option-A

Question63:-R-717 is which refrigerant?

- A:-Freon
- B:-Ammonia
- C:-Brine
- D:-Sulphur Dioxide

Correct Answer:- Option-B

Question64:-Dehumidification process on the psychometric chart is given by \_\_\_\_\_.

- A:-Horizontal lines
- B:-Inclined lines
- C:-Curved lines
- D:-Vertical lines

Correct Answer:- Option-D

Question65:-Density of water is maximum at \_\_\_\_\_ °C

- A:-4
- B:-5
- C:-6
- D:-7

Correct Answer:- Option-A

Question66:-The type of valve (suction/discharge) commonly used in homogenizer is

- A:-Poppet
- B:-Ball
- C:-Mushroom
- D:-None of the above

Correct Answer:- Option-C

Question67:-Minimum clearance space of \_\_\_\_\_ is required between the floor and equipment base with ball foot.

- A:-10 mm
- B:-50 mm
- C:-75 mm
- D:-100 mm

Correct Answer:- Option-D

Question68:-Following are the Koestler's numbers of different milk samples (a, b, c & d). Out of them, the 'normal milk' sample is

- A:-1.8
- B:-2.8
- C:-3.8
- D:-4.8

Correct Answer:- Option-A

Question69:-Disease beriberi is due to the deficiency of Vitamin

- A:-`"B\_1"``
- B:-`"B\_2"``
- C:-`"B\_6"``
- D:-`"B\_9"``

Correct Answer:- Option-A

Question70:-The piston pump boosts the pressure of the milk to about \_\_\_\_\_ at the inlet.

- A:-100 bar
- B:-200 bar
- C:-3 bar
- D:-50 bar

Correct Answer:- Option-C

Question71:-Power from the motor in the cream separator is transmitted to the bowl spindle using

- A:-Worm wheel and worm gear mechanism
- B:-V belt and pulley
- C:-Flat belt and pulley
- D:-Chain drive

Correct Answer:- Option-A

Question72:-Prominent sign of heat stress in dairy cattle is

- A:-Sweating
- B:-Panting
- C:-Anorexia
- D:-Bloat

Correct Answer:- Option-B

Question73:-Correct timing of Artificial insemination in cattle is

- A:-10 hours before first signs of oestrus
- B:-12-18 hours after first signs of oestrus
- C:-Immediately on first signs of oestrus
- D:-None of the above

Correct Answer:- Option-B

Question74:-The most ideal method of milking is \_\_\_\_\_.

- A:-Stripping
- B:-Knuckling
- C:-Full hand milking
- D:-Thumping

Correct Answer:- Option-C

Question75:-The period between one calving and next conception in a cow is known as

- A:-Intercalving period
- B:-Service period
- C:-Puberty
- D:-None of the above

Correct Answer:- Option-B

Question76:-Based on scientific feeding, for production of every 1 kg milk, the quantity of concentrate is to be given to a cow is

- A:-1 kg
- B:-400 g
- C:-2 kg
- D:-1.5 kg

Correct Answer:- Option-B

Question77:-The Head Quarters of International Dairy Federation is situated at

- A:-Hague



- B:-Geneva
- C:-Brussels
- D:-Vienna

Correct Answer:- Option-C

Question78:-Which of the following disease is colloquially termed as, "Kuraladappan"?

- A:-Ephemeral fever
- B:-Foot and Mouth disease
- C:-Haemorrhagic septicaemia
- D:-Rinder pest

Correct Answer:- Option-C

Question79:-Institute of Animal Health and Veterinary Biologicals is located at

- A:-Edappally
- B:-Beyepore
- C:-Chenganoor
- D:-Palode

Correct Answer:- Option-D

Question80:-Hormone responsible for letting down of milk

- A:-Relaxin
- B:-Prolactin
- C:-Oxytocin
- D:-Inhibin

Correct Answer:- Option-C

Question81:-The gestation period of dairy cattle is \_\_\_\_\_ days.

- A:-150
- B:-360
- C:-280
- D:-100

Correct Answer:- Option-C

Question82:-The test used for checking presence of buffalo milk in cow milk is

- A:-Baudoin test
- B:-California Mastitis test
- C:-Hansa test
- D:-HOTIS test

Correct Answer:- Option-C

Question83:-Casein/Fat ratio in cheese milk is

- A:-0.68-0.70
- B:-0.55-0.66
- C:-0.78-0.80
- D:-0.4-0.6

Correct Answer:- Option-A

Question84:-According to Davis, Starter cultures are defined as

- A:-Body of Cheese
- B:-Heart of Cheese
- C:-Taste of Cheese
- D:-Flavour of Cheese

Correct Answer:- Option-B

Question85:-Rennet is obtained from \_\_\_\_\_ of the young suckling calves.

- A:-Omasum
- B:-Abomasum
- C:-Rumen
- D:-Reticulum

Correct Answer:- Option-B

Question86:-Mozzarella cheese is originated in

- A:-England
- B:-Germany
- C:-Italy
- D:-France

Correct Answer:- Option-C

Question87:-The late blowing in milk products is due to

- A:-E.Coli
- B:-Salmonelle typhi
- C:-Clostridium sp
- D:-Aspergillus

Correct Answer:- Option-C

Question88:-The component responsible for fishy flavour in butter is

- A:-Diacetyl
- B:-Methyl ketone
- C:-Lactic acid
- D:-Trimethyl amine

Correct Answer:- Option-D

Question89:-1 TR is \_\_\_\_\_ KJ/min.

- A:-211
- B:-111
- C:-311
- D:-11.1

Correct Answer:- Option-A

Question90:-The density of Gerber sulphuric acid is

- A:-1.84
- B:-1.80
- C:-0.805
- D:-0.981

Correct Answer:- Option-B

Question91:-Which among the following is not mentioned in Food Safety Standards - 10th amendment regulation 2016?

- A:-Listeria monocytogenes
- B:-Shigella sp
- C:-Cronobacter sp
- D:-Bacillus cereus

Correct Answer:- Option-B

Question92:-Camel milk is closet to human mother's milk. Where is the ICAR - National Research Centre on Camel located?

- A:-Mathura
- B:-Bikaner
- C:-Raipur
- D:-Mehsana

Correct Answer:- Option-B

Question93:-\_\_\_\_\_ has become the first in India's food industry to start a fully automated bio CNG generation and bottling plant to utilize energy from ETP.

- A:-Coke India Ltd
- B:-Nestle India
- C:-Amul
- D:-Danone - Yakult India

Correct Answer:- Option-C

Question94:-Cheese prepared from whey is \_\_\_\_\_.

- A:-Parmesan
- B:-Ricotta
- C:-Brie
- D:-Gorgonzola

Correct Answer:- Option-B

Question95:-The whey protein fraction absent in human milk is \_\_\_\_\_.

- A:-alpha lactalbumin
- B:-lactanins
- C:-lactoperoxidase system
- D:-beta lactoglobulin

Correct Answer:- Option-D

Question96:-European number of carrageenan is

- A:-404
- B:-405
- C:-406
- D:-407

Correct Answer:- Option-D

Question97:-The greenish tinge in buffalo ghee is due to the presence of

- A:-Biliverdin
- B:-Brilliant green
- C:-Lactones
- D:-Pyocyanin

Correct Answer:- Option-A

Question98:-The calibration temperature of Zeal Lactometer in Kerala is \_\_\_\_\_ Deg C.

- A:-21.0
- B:-15.5
- C:-27.0
- D:-29.0

Correct Answer:- Option-D

Question99:-The organism present in Yakult is

- A:-Lb. casei
- B:-Lb. acidophilus
- C:-Lb. delbreuckii
- D:-Lb. helveticus

Correct Answer:- Option-A

Question100:-Malty flavour defect is due to the production of

- A:-3-methyl butanal
- B:-Butane diol
- C:-Lactones
- D:-2-methoxy alkyl pyrazine

Correct Answer:- Option-A