

# PROVISIONAL ANSWER KEY

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Alphacode	A

Question1:-Who presided over the Constituent Assembly while passing the constitution?

- A:-Dr. B.R. Ambedkar
  - B:-Dr. Rajendra Prasad
  - C:-Dr. H.P. Modi
  - D:-Dr. H.C. Mukherjee
- Correct Answer:- Option-B

Question2:-Who was the supreme leader of Guruvayur Satyagraha?

- A:-K. Kelappan
  - B:-A.K. Gopalan
  - C:-K. Madhavan Nair
  - D:-N.P. Damodaran
- Correct Answer:- Option-A

Question3:-When did the historic Vaikom Satyagraha begin?

- A:-1921
  - B:-1922
  - C:-1923
  - D:-1924
- Correct Answer:- Option-D

Question4:-Where is the first library in Kerala started?

- A:-Ernakulam
  - B:-Kottayam
  - C:-Trissur
  - D:-Trivandrum
- Correct Answer:- Option-D

Question5:-Under what Article of the Constitution does the Supreme Court issue a writ?

- A:-Article 30
  - B:-Article 31
  - C:-Article 32
  - D:-Article 33
- Correct Answer:- Option-C

Question6:-From which constitution are the Directive Principles of State Policy adopted?

- A:-English
  - B:-American
  - C:-Irish
  - D:-German
- Correct Answer:- Option-C

Question7:-In which year was the first world environment day observed?

- A:-1972
  - B:-1973
  - C:-1974
  - D:-1975
- Correct Answer:- Option-B

Question8:-What was the reason behind the passing of Lokpal bill in 2013?

- A:-Unemployment
  - B:-Poverty
  - C:-Inequality
  - D:-Corruption
- Correct Answer:- Option-D

Question9:-In which year was Sankaracharya born?

- A:-786

B:-787

C:-788

D:-789

Correct Answer:- Option-C

Question10:-Who was the founder of Sadhu Jana Paripalana Yogam in 1907?

A:-Sivayogi

B:-Ayyankali

C:-Vaikunta Swami

D:-Vagbhatananda

Correct Answer:- Option-B

Question11:-Who founded the Sahodara Sangham at Chera?

A:-K. Ayyappan

B:-N. Govindan

C:-Kumaran Asan

D:-C. Krishnan

Correct Answer:- Option-A

Question12:-Who was the editor of the Malayalam Newspaper "Swadesabhimani"?

A:-G. Parameswaran

B:-Rama Krishna Pillai

C:-K.P. Sankara Menon

D:-N. Raman Pillai

Correct Answer:- Option-B

Question13:-When was the Ezhava Memorial presented to the Maharaja of Travancore?

A:-1895

B:-1896

C:-1897

D:-1898

Correct Answer:- Option-B

Question14:-Who is known as 'Vayalar Stalin'?

A:-T.M. Varghese

B:-A.P. Udaya Bhanu

C:-A.J. John

D:-C.K. Kumara Panikkar

Correct Answer:- Option-D

Question15:-Name the place where Akkamma Cherian struggled for responsible government

A:-Travancore

B:-Cochin

C:-Malabar

D:-Kannur

Correct Answer:- Option-A

Question16:-Who was the brightest literary figure of Cranganore royal family got the title of 'Kerala Vyasa'?

A:-Kerala Varma Valia Koil Tampuran

B:-A.R. Raja Raja Varma

C:-Kunhikuttan Tampuran

D:-Kochunni Tampuran

Correct Answer:- Option-C

Question17:-Name the Primer Minister who appointed Sarkaria Commission to review center-state relations

A:-Jawaharlal Nehru

B:-V.P. Singh

C:-Rajiv Gandhi

D:-Indira Gandhi

Correct Answer:- Option-D

Question18:-Name the Jesuit Missionary who wrote 'Puthenpaana'?

A:-Arnos Padiri

B:-Francis Xavier

C:-Francis Ross

D:-Henrique Henriquez

Correct Answer:- Option-A

Question19:-Which Schedule of our constitution provides the list of languages recognized by it?

- A:-Eighth Schedule
- B:-Ninth Schedule
- C:-Tenth Schedule
- D:-Eleventh Schedule

Correct Answer:- Option-A

Question20:-Who said the dictum "A state is known by the rights it maintains"?

- A:-B.R. Ambedkar
- B:-O.P. Sharma
- C:-Laski
- D:-Ivor Jennings

Correct Answer:- Option-C

Question21:-The upper limit of available moisture in soil is called \_\_\_\_\_.

- A:-Permanent wilting point
- B:-Field capacity
- C:-Saturation capacity
- D:-Hygroscopic coefficient

Correct Answer:- Option-B

Question22:-At IW/CPE ratio of 1.0, when IW is 50 mm, and per day pan evaporation is 5 mm, irrigation is scheduled at \_\_\_\_\_ days interval.

- A:-5 days
- B:-15 days
- C:-10 days
- D:-20 days

Correct Answer:- Option-C

Question23:-In " $I_{30}$ " index, " $I_{30}$ " stands for \_\_\_\_\_.

- A:-Maximum 30 minutes rainfall intensity
- B:-Maximum kinetic energy for 30 days
- C:-Minimum 30 minutes rainfall intensity
- D:-None of the above

Correct Answer:- Option-A

Question24:-Bulk density of soil is calculated by the equation

- A:-Weight of wet soil / Total soil volume
- B:-Weight of dry soil / Total soil volume
- C:-Weight of dry soil / Volume of dry soil
- D:-None of the above

Correct Answer:- Option-B

Question25:-Khaira disease of rice is caused by

- A:-Nitrogen deficiency
- B:-K deficiency
- C:-Zinc deficiency
- D:-Iron deficiency

Correct Answer:- Option-C

Question26:-The crop which is referred to as "Queen of cereals"

- A:-Rice
- B:-Wheat
- C:-Maize
- D:-Sorghum

Correct Answer:- Option-C

Question27:-High yielding variety of cassava released from Kerala Agricultural University with a duration of 5-6 months

- A:-Vellayani Hraswa
- B:-Sree Prakash
- C:-H-97
- D:-Sree Jaya

Correct Answer:- Option-A

Question28:-Seed rate of transplanted rice in Kerala is \_\_\_\_\_.

- A:-80-100 kg/ha
- B:-60-85 kg/ha
- C:-80-90 kg/ha
- D:-50-60 kg/ha

Correct Answer:- Option-B

Question29:-Scientific name of Greater yam

A:-Dioscorea alata

B:-Dioscorea esculenta

C:-Dioscorea rotundata

D:-None of the above

Correct Answer:- Option-A

Question30:-Centre of origin of sweet potato

A:-Africa

B:-Central America

C:-India

D:-Australia

Correct Answer:- Option-B

Question31:-Sree Nandini is a variety of \_\_\_\_\_ crop.

A:-Cassava

B:-Sweet Potato

C:-Amorphophallus

D:-Greater Yam

Correct Answer:- Option-B

Question32:-Cassava belongs to the family

A:-Malvaceae

B:-Euphorbiaceae

C:-Convolvulaceae

D:-Poaceae

Correct Answer:- Option-B

Question33:-Man made cereal crop

A:-Rice

B:-Wheat

C:-Maize

D:-Rye

Correct Answer:- Option-D

Question34:-NPK recommendation of high yielding medium duration rice variety of Kerala

A:-90:45:45 kg/ha

B:-70:35:35 kg/ha

C:-60:30:30 kg/ha

D:-40:20:20 kg/ha

Correct Answer:- Option-A

Question35:-Sree Reshmi is a variety of \_\_\_\_\_ crop.

A:-Colocasia

B:-Cassava

C:-Sweet potato

D:-Rice

Correct Answer:- Option-A

Question36:-In Kerala, irrigated area is \_\_\_\_\_ percentage of cultivated area.

A:-15%

B:-20%

C:-30%

D:-45%

Correct Answer:- Option-A

Question37:-Kerala Agriculture is characterised by dominance of the crop

A:-Cereal crop

B:-Tuber crop

C:-Vegetable crop

D:-Plantation crop

Correct Answer:- Option-D

Question38:-Photoperiodically rice is a \_\_\_\_\_ plant.

A:-Short day

B:-Long day

C:-Day neutral

D:-None of the above

Correct Answer:- Option-A

Question39:-Farm Yard Manure (FYM) requirement of cassava is \_\_\_\_\_ tonnes/ha.

A:-12.5

B:-20.5

C:-30.5

D:-45

Correct Answer:- Option-A

Question40:-A post emergence herbicide recommended for low land rice

A:-2,4-D

B:-Paraquat

C:-Atrazine

D:-None of the above

Correct Answer:- Option-A

Question41:-Critical weed free period for rice cultivation is upto \_\_\_\_\_ days after transplanting.

A:-20-30

B:-40-50

C:-60-70

D:-10-20

Correct Answer:- Option-B

Question42:-NPK recommendation for cowpea crop in Kerala is \_\_\_\_\_ kg/ha.

A:-20:30:10

B:-20:10:10

C:-30:10:20

D:-10:10:10

Correct Answer:- Option-A

Question43:-The common pulse crop recommended for intercropping in tapioca is \_\_\_\_\_.

A:-Blackgram

B:-Greengram

C:-Redgram

D:-Cowpea

Correct Answer:- Option-D

Question44:-Sugarcane Breeding Institute (SBI) is located at \_\_\_\_\_.

A:-Thiruvalla

B:-Coimbatore

C:-Lucknow

D:-Mumbai

Correct Answer:- Option-B

Question45:-Yield reduction in crops due to attack of weeds is \_\_\_\_\_%.

A:-20-25

B:-40-45

C:-60-65

D:-10-20

Correct Answer:- Option-B

Question46:-The first herbicide used in the world is \_\_\_\_\_.

A:-2,4-D

B:-Atrazine

C:-Simazine

D:-Glyphosate

Correct Answer:- Option-A

Question47:-Parasitic weeds are also referred to as \_\_\_\_\_ weeds.

A:-Crop associated weeds

B:-Crop bound weeds

C:-Noxious weeds

D:-Aquatic weeds

Correct Answer:- Option-B

Question48:-The per capita land availability of Kerala is \_\_\_\_\_ ha.

A:-0.5

B:-1.5

C:-0.1

D:-2.0

Correct Answer:- Option-C

Question49:-The branch of agricultural science dealing with cultivation of vegetable crops is called \_\_\_\_\_.

A:-Floriculture

B:-Olericulture

C:-Pomology

D:-Agronomy

Correct Answer:- Option-B

Question50:-The place in Kerala where cultivation is done below Mean Sea Level (MSL)

A:-Vellayani

B:-Kuttanad

C:-Palakkad

D:-Pokkali

Correct Answer:- Option-B

Question51:-Sub surface application of herbicide is effective against

A:-Annual weeds

B:-Noxious weeds

C:-Perennial weeds

D:-Biennial weeds

Correct Answer:- Option-C

Question52:-"Nominee Gold" is the commercial name of herbicide

A:-Bispyribac sodium

B:-Phenoxy acid

C:-Triazine group

D:-Pendimethalin

Correct Answer:- Option-A

Question53:-Nitrogen fixing symbiotic bacteria present in root nodules of legume plants

A:-Rhizobium

B:-Azotobacter

C:-Azospirillum

D:-Pseudomonas

Correct Answer:- Option-A

Question54:-Scientific name of Horse gram

A:-Vigna unguiculata

B:-Cicer arietinum

C:-Macrotyloma uniflorum

D:-Vigna mungo

Correct Answer:- Option-C

Question55:-National Institute for Dryland Agriculture (CRIDA) is located at

A:-Hyderabad

B:-Bangalore

C:-Coimbatore

D:-New Delhi

Correct Answer:- Option-A

Question56:-The recent value added product of coconut gaining importance in Kerala industry

A:-Virgin oil

B:-Neera

C:-Coconut chips

D:-Coconut cream

Correct Answer:- Option-B

Question57:-An autonomous institute doing research work exclusively on water management aspects in Kerala

A:-Kerala Agricultural University

B:-CWRDM

C:-CPCRI

D:-CTCRI

Correct Answer:- Option-B

Question58:-At permanent wilting point, moisture is held in soil at a tension of

A:-0.3 atm

B:-10 atm

C:-15 atm

D:-31 atm

Correct Answer:- Option-C

Question59:-Available water is held between field capacity and \_\_\_\_\_.

A:-Saturation capacity

B:-Permanent wilting point

C:-Hygroscopic coefficient

D:-Oven dry soil

Correct Answer:- Option-B

Question60:-The present Union Minister of Agriculture in Indian Cabinet

A:-Radha Mohan Singh

B:-Sarad Powar

C:-Raj Nadh Singh

D:-Arun Jaitley

Correct Answer:- Option-A

Question61:-Different forms of the water present in food are :

A:-Bound water, hydrated water, imbibed water in gel and water absorbed on surface

B:-Bound water, free water, occluded water and crystallized water

C:-Free water, lymph water, imbibed water in gel, adsorbed water

D:-Free water, drip water, bound water in gel, water absorbed on surface

Correct Answer:- Option-A

Question62:-Mathematically, water activity ( $a_w$ ) can be expressed as :

A:- $a_w = ERH \times 100$

B:- $a_w = ERH / 100$

C:- $a_w = ERH \times \text{Moisture content}$

D:- $a_w = ERH / \text{Moisture content}$ , where ERH is equilibrium relative humidity

Correct Answer:- Option-B

Question63:-Isotherms are plotted :

A:-moisture content vs. protein

B:-moisture content vs. carbohydrate

C:-moisture content vs. water activity

D:-moisture content vs. pH

Correct Answer:- Option-C

Question64:-Carbohydrate provides calories at the rate of :

A:-5 Kcal/g

B:-6 Kcal/g

C:-8 Kcal/g

D:-4 Kcal/g

Correct Answer:- Option-D

Question65:-The following are the disaccharides :

A:-glucose and fructose

B:-sucrose and glucose

C:-sucrose and maltose

D:-lactose and fructose

Correct Answer:- Option-C

Question66:-The examples of storage polysaccharides are :

A:-starch and glycogen

B:-cellulose and glucose

C:-glycogen and pectin

D:-amylose and amylopectin

Correct Answer:- Option-A

Question67:-The number of optical isomers for a carbohydrate is exhibited by the formula

A:- $2 \times n$

B:- $2^n$

C:- $4^n$

D:- $2/n$

where n is the number of asymmetric carbons

Correct Answer:- Option-B

Question68:-Human daily calories requirement is :

- A:-3000-4000 Kilocalories
- B:-2000-3000 Kilocalories
- C:-2500-5000 Kilocalories
- D:-4000-6000 Kilocalories

Correct Answer:- Option-C

Question69:-Lipids are the derivatives of the :

- A:-fatty acids
- B:-hydrocarbons
- C:-esters
- D:-alcohols

Correct Answer:- Option-A

Question70:-Three essential fatty acids are :

- A:-Oleic acid, palmitic acid and linolenic acid
- B:-Oleic acid, stearic acid and arachidonic acid
- C:-Linoleic acid, oleic acid and arachidonic acid
- D:-Linoleic acid, linolenic acid and arachidonic acid

Correct Answer:- Option-D

Question71:-Lecithin which acts as an emulsifier in food system is a :

- A:-triacyl glycerol
- B:-phospho lipid
- C:-sphingo lipid
- D:-glycolipids

Correct Answer:- Option-B

Question72:-Proteins are the chains of the amino acids joined by :

- A:-covalent bonds
- B:-electrovalent bonds
- C:-polypeptide bonds
- D:-none of the above

Correct Answer:- Option-C

Question73:-Insulin is an important protein present in human body. It helps to regulate :

- A:-sugar metabolism
- B:-protein metabolism
- C:-lipid metabolism
- D:-energy requirement

Correct Answer:- Option-A

Question74:-Most of the essential amino acids are present in :

- A:-plant food
- B:-dairy products
- C:-meat and meat products
- D:-cereals and cereal products

Correct Answer:- Option-C

Question75:-Antimicrobial factors in egg white are :

- A:-Conalbumin
- B:-Avidin
- C:-Lysozyme
- D:-All of the above

Correct Answer:- Option-D

Question76:-The part of the tongue which detects the bitter taste is :

- A:-Tip of the tongue
- B:-Back of the tongue
- C:-Side of the tongue
- D:-Both side and tips of the tongue

Correct Answer:- Option-B

Question77:-The most common environments in which the microorganism proliferate are :

- A:-soil and plant
- B:-water and mud
- C:-soil and water



D:-water and wood

Correct Answer:- Option-C

Question78:-Food borne diseases are classified as :

A:-food intoxication and non intoxication

B:-food intoxication and food infection

C:-food infection and food contamination

D:-food infection and food poisoning

Correct Answer:- Option-B

Question79:-Enzymes act as biological catalyst and the rate of enzyme catalyzed reaction is dependent upon :

A:-temperature

B:-pH

C:-substrate and enzyme concentration

D:-all of the above

Correct Answer:- Option-D

Question80:-The following vitamins are water soluble :

A:-ADE and K

B:-C and B-complex group

C:-D and C

D:-Only B complex group

Correct Answer:- Option-B

Question81:-Biological functions of the Vitamin "B<sub>12</sub>" are :

A:-formation of nucleic acid and in fat and carbohydrate metabolism

B:-prevents cholesterol formation

C:-energy formation

D:-help to synthesize tissue

Correct Answer:- Option-A

Question82:-Pasteurisation is the mild heat treatment given to the milk in order to destroy :

A:-all the bacteria

B:-all pathogens

C:-mold and yeast

D:-all the microorganism

Correct Answer:- Option-B

Question83:-Fat content of toned milk is :

A:-4%

B:-5%

C:-3%

D:-4.5%

Correct Answer:- Option-C

Question84:-Amongst three protein components of meat (myofibrillar, sarcoplasmic and stromal protein), the protein present in highest quantity is :

A:-Sarcoplasmic protein

B:-Myofibrillar protein

C:-Stromal protein

D:-All in equal quantity

Correct Answer:- Option-B

Question85:-During post mortem glycolysis the following changes occurs :

A:-ATP and pH increase

B:-ATP increase pH decrease

C:-CP and pH increase

D:-ATP, CP and pH falls

Correct Answer:- Option-D

Question86:-Extensibility loss in large animals starts after :

A:-200 minutes

B:-210 minutes

C:-240 minutes

D:-250 minutes

Correct Answer:- Option-D

Question87:-Which one is desirable during post mortem?

A:-PSE condition

B:-DFD condition

C:-Rigor mortis

D:-SL dark condition

Correct Answer:- Option-C

Question88:-Sensory panel for sensory evaluation may be of

A:-four type

B:-three type

C:-two type

D:-only one type

Correct Answer:- Option-B

Question89:-In composite scoring test total score remains

A:-100

B:-50

C:-150

D:-200

Correct Answer:- Option-A

Question90:-Squash has TSS :

A:-30° brix

B:-35° brix

C:-45° brix

D:-60° brix

Correct Answer:- Option-C

Question91:-According to Lambert's law : when a beam of monochromatic light is passed through a solution of constant concentration; the absorbance is directly proportional to :

A:-thickness

B:-intensity

C:-wavelength

D:-viscosity

Correct Answer:- Option-A

Question92:-Principle of sugar estimation is that :

A:-The Fehling solution reduces sugar

B:-The sugar reduces Fehling solution

C:-Fehling solution oxidizes sugar solution

D:-The sugar oxidizes Fehling solution

Correct Answer:- Option-B

Question93:-Four Central Food Laboratories are located in four different cities of India viz.

A:-Kolkata, Mumbai, Chennai and Mysore

B:-Delhi, Bombay, Chennai and Bangalore

C:-Kolkata, Delhi, Mumbai and Chennai

D:-Kolkata, Ghaziabad, Pune and Mysore

Correct Answer:- Option-D

Question94:-Fruit Product Order 1955 was issued by Ministry of Food Industries for :

A:-Dairy products

B:-Fruit and vegetable products

C:-Meat products

D:-Cereals and cereal products

Correct Answer:- Option-B

Question95:-Hazard Analysis Critical Control Point (HACCP) has :

A:-ten principles

B:-nine principles

C:-seven principles

D:-six principles

Correct Answer:- Option-C

Question96:-ISO-9000 describes :

A:-Quality Analysis System

B:-Quality Assurance System

C:-Quality Acceptance System

D:-Quality Management System

Correct Answer:- Option-D

Question97:-ISO-14001-2004 is a system about :

- A:-Environment management
- B:-Quality of fruit and vegetable products
- C:-Quality of meat products
- D:-Safety of the consumer

Correct Answer:- Option-A

Question98:-Hunter Lab measures the colour in terms of three dimensions namely :

- A:-Value, Chroma and OD
- B:-Value, Hue and Chroma
- C:-Absorbance, Transmittance and Intensity
- D:-Value, Hue and Absorbance

Correct Answer:- Option-B

Question99:-Shelf life of the processed food can be determined by conducting studies on :

- A:-Microbial count and TBA number
- B:-Physical properties
- C:-Chemical properties
- D:-Sensory properties

Correct Answer:- Option-A

Question100:-Milk is converted to milk powder using :

- A:-Tray drier
- B:-Tunnel drier
- C:-Spray drier
- D:-Freeze drier

Correct Answer:- Option-C