

## PROVISIONAL ANSWER KEY

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Question1:-Select a perennial sedge from the following weds

- A:-Cynodon dactylon
- B:-Cyperus rotundus
- C:-Eupatorium odoratum
- D:-Lantana camara

Correct Answer:- Option-B

Question2:-Irrigation method suitable for the areas of acute water shortage is

- A:-Drip
- B:-Sprinkler
- C:-Flood
- D:-Furrow

Correct Answer:- Option-A

Question3:-The phenomenon of one plant having a detrimental effect on another through the production of toxic chemicals is termed as

- A:-Weed parasitism
- B:-Allelopathy
- C:-Crop weed association
- D:-Crop weed competition

Correct Answer:- Option-B

Question4:-The cultivation of different crops of different canopy heights in a field simultaneously is called

- A:-Rotational cropping
- B:-Relay cropping
- C:-Multitier cropping
- D:-Strip cropping

Correct Answer:- Option-C

Question5:-Example of a non-selective herbicide is

- A:-Butachlor
- B:-Diuron
- C:-Glyphosate
- D:-Pendimethalin

Correct Answer:- Option-C

Question6:-If a site is known to be windy most of the time, which of the following is not suitable for irrigation

- A:-Drip
- B:-Sprinkler
- C:-Both (1) and (2)
- D:-None of the above

Correct Answer:- Option-B

Question7:-Which of the following is considered to be the second agricultural season in Kerala?

- A:-December-January to March-April
- B:-May-June to August-September
- C:-March-April to June-July
- D:-September-October to December-January

Correct Answer:- Option-D

Question8:-Identify the cropping pattern in which, crops are grown as a control measure for agricultural pests

- A:-Catch cropping
- B:-Cover cropping
- C:-Trap cropping
- D:-None of these

Correct Answer:- Option-C

Question9:-Which of the following statement is/are correct about objectives of IFS

- (i) Enhancing productivity/ unit area
- (ii) Soil health management
- (iii) Proper waste management

- A:-Only (i) and (ii)
- B:-Only (i) and (iii)
- C:-Only (ii) and (iii)
- D:-All the above

Correct Answer:- Option-D

Question10:-Colour of the tag used to identify registered seed class is

- A:-White
- B:- Purple
- C:-Golden Yellow
- D:-Blue

Correct Answer:- Option-B

Question11:-Which among the following is considered as Queen of spices?

- A:-Cardamon
- B:-Clove
- C:-Cinnamon
- D:-Pepper

Correct Answer:- Option-A

Question12:-An insect which is effectively used for the control of African payal is

- A:-Crociosema lantana
- B:-Cyrtobagous Salviniae
- C:-Neochetina eichorniae
- D:-Cactoblastis cactorum

Correct Answer:- Option-B

Question13:-Which seed sowing method has the highest seed rate?

- A:-Dibbling
- B:-Transplanting
- C:-Broadcasting
- D:-Drilling

Correct Answer:- Option-C

Question14:-Sharika, Malika and Lola are varieties of

- A:-Rice
- B:-Cow pea
- C:-Tomato
- D:-Cashew

Correct Answer:- Option-B

Question15:-Application of fertilizers through irrigation water is called

- A:-Fumigation
- B:-Foliar spray
- C:-Fertigation
- D:-Micro irrigation

Correct Answer:- Option-C

Question16:-A fresh water fern used as biofertilizer is

- A:-Rhizobium
- B:-Azotobacter
- C:-Azolla
- D:-VAM

Correct Answer:- Option-C

Question17:-Which of the following fertilizer contains highest concentration of Nitrogen

- A:-Ammonium sulphate
- B:-Calcium Ammonium Nitrate
- C:-Urea
- D:-Ammonium Phosphate

Correct Answer:- Option-C

Question18:-A permitted chemical fungicide for organic farming is

- A:-Mancozeb
- B:-Bordeaux Mixture
- C:-Zineb
- D:-Bavistin

Correct Answer:- Option-B

Question19:-Best species of Earthworm for vermicomposting under Kerala condition is

- A:-Eudrillus eugineae
- B:-Eisenia fetida
- C:-Lumbricus rubellus
- D:-None of the above

Correct Answer:- Option-A

Question20:-A liquid organic manure used in organic farming is

- A:-Papaya leaf extract
- B:-Panchagavya
- C:-Neem oil-garlic emulsion
- D:-Peruvalam leaf extract

Correct Answer:- Option-B

Question21:-Which of the following is correct for Saline-Alkali soils

- A:-EC > 4.0 mmhos/cm at 25°C , ESP < 15 and  $p^H$  < 8.5
- B:-EC < 4.0 mmhos/cm at 25°C , ESP > 15 and  $p^H$  > 8.5
- C:-EC > 4.0 mmhos/cm at 25°C , ESP > 15 and  $p^H$  < 8.5
- D:-None of the above

Correct Answer:- Option-B

Question22:-Khaira disease of Rice is due to the deficiency of

- A:-Fe
- B:-Mn
- C:-Zn
- D:-Mo

Correct Answer:- Option-C

Question23:-A product containing a minimum of 70% organic ingredients can be labelled

- A:-Organic
- B:-Made with organic ingredients
- C:-70% organic
- D:-Purely organic

Correct Answer:- Option-B

Question24:-Which of the following is a physical property of soil?

- A:-Soil structure
- B:-Cation exchange capacity
- C:-Electrical conductivity
- D:- $p^H$

Correct Answer:- Option-A

Question25:-Percentage composition of mineral matter in a typical soil is

- A:-25%
- B:-5%
- C:-45%
- D:-10%

Correct Answer:- Option-C

Question26:-Select concentrated organic manures from the following

- (i) Neem cake
- (ii) FYM
- (iii) Compost
- (iv) Bone meal

- A:-(i) and (iii)
- B:-(i) and (iv)
- C:-(ii) and (iii)
- D:-(ii) and (iv)

Correct Answer:- Option-B

Question27:-\_\_\_\_\_ is used for the reclamation of alkali soils

- A:-Quick lime
- B:-Slaked lime
- C:-Gypsum
- D:-Dolomite

Correct Answer:- Option-C

Question28:-Desired size of the sample for soil testing is

- A:-500 g
- B:-1kg
- C:-100 g
- D:-50 g

Correct Answer:- Option-A

Question29:-Humus is

- A:-Fertilizer
- B:-Organic colloid
- C:-Inorganic colloid
- D:-Chemical

Correct Answer:- Option-B

Question30:-Father of zero budget natural farming is

- A:-M.S. Swaminathan
- B:-Jethro Tull
- C:-Subhash Palekar
- D:-Pietro de Crescenzi

Correct Answer:- Option-C

Question31:-Which among the following is the correct strategy of pest control

- A:-Initiate pest control at ETL
- B:-Initiate pest control much below ETL
- C:-Initiate pest control at EIL
- D:-Initiate pest control above EIL

Correct Answer:- Option-A

Question32:-The reduced hind wings that are used as balancing organs in insects of order Diptera

- A:-Frenulum
- B:-Elytra
- C:-Halteres
- D:-Cellophore

Correct Answer:- Option-C

Question33:-Which among the following attacks stored agricultural produces

- (i) Spodoptera mauritia
- (ii) Rhizopertha dominica
- (iii) Tribolium castaneum
- (iv) Hymenia recurvalis

- A:-(i) and (ii)
- B:-(ii) and (iii)
- C:-(i) and (iv)
- D:-All of the above

Correct Answer:- Option-B

Question34:-Which of the following options are correctly matched

- (i) Rice stem borer (a) Odoiporous longicollis
- (ii) Red palm weevil of coconut (b) Longitarsus nigripennis
- (iii) Pseudostem weevil in Banana (c) Scirpophaga incertulas
- (iv) Pollu beetle of pepper (d) Rhyncophorous ferrugineus

- A:-(i)-(c), (ii)-(a), (iii)-(b), (iv)-(c)
- B:-(i)-(d), (ii)-(d), (iii)-(c), (iv)-(a)
- C:-(i)-(a), (ii)-(c), (iii)-(d), (iv)-(b)
- D:-(i)-(b), (ii)-(b), (iii)-(a), (iv)-(d)

Correct Answer:- Option-A

Question35:-Which of the following is a component of IPM?

- A:-Spraying malathion for insect pest control
- B:-Soil solarisation
- C:-Using marigold as trap crop
- D:-All the above

Correct Answer:- Option-D

Question36:-The type of insecticides that are most effective against sucking insects

- A:-Stomach insecticides
- B:-Fumigants
- C:-Systemic insecticides
- D:-Deterrants

Correct Answer:- Option-C

Question37:-Attack of snails in plants can be managed by use of

- A:-Methomyl
- B:-Metaldehyde
- C:-Both (1) and (2)
- D:-None of the above

Correct Answer:- Option-C

Question38:-Radopholus simillis is the scientific name of

- A:-Coconut mite
- B:-Burrowing nematode
- C:-Lady bird beetle
- D:-Root knot nematode

Correct Answer:- Option-B

Question39:-An insect is considered to be a major pest of crop if it causes a yield loss of

- A:-3%
- B:-5%
- C:-15%

D:-8%

Correct Answer:- Option-C

Question40:-The toxicity label in a pesticide bottle shows blue colour. This indicates the pesticide is

A:-Extremely toxic

B:-Moderately toxic

C:-Highly toxic

D:-Slightly toxic

Correct Answer:- Option-B

Question41:-Pheromone trap used for the control of fruitfly in cucurbits

A:-Rhinolure

B:-Cuelure

C:-Ferrolure

D:-None of the above

Correct Answer:- Option-B

Question42:-An insecticide banned for use in India

A:-Thiodicarb

B:-Indoxacarb

C:-Fluvalinate

D:-Aldicarb

Correct Answer:- Option-D

Question43:-The book that publicized the harmful effects of indiscriminate use of pesticides

A:-One straw revolution

B:-Silent spring

C:-Permaculture

D:-Lost woods

Correct Answer:- Option-B

Question44:-Gundhi bug damages rice plants by

A:-Sucking juice from stem

B:-Sucking juice from developing grains

C:-Sucking juice from leaves

D:-Sucking juice from roots

Correct Answer:- Option-B

Question45:-Yellow vein Mosaic in Bhindi is spread by

- (i) *Amrasca biguttula*
- (ii) *Bemisia tabacci*
- (iii) *Nilaparvatha lugens*
- (iv) *Stephanitis typicus*

A:-(i) only

B:-(ii) only

C:-(i) and (ii)

D:-All the above

Correct Answer:- Option-C

Question46:-Which plant disease is associated with Bengal famine

A:-Wheat Rust

B:-Leaf Blight of Potato

C:-Brown spot in Rice

D:-Sheath Blight in Rice

Correct Answer:- Option-C

Question47:-The conceptual model that helps in understanding the interaction between various factors resulting in plant disease

A:-Phytopathology

B:-Disease triangle

C:-Epidemiology

D:-Infection court

Correct Answer:- Option-B

Question48:-A disease that is prevalent throughout the country, continent or world is known as

A:-Pandemic

B:-Sporadic

C:-Epidemic

D:-Endemic

Correct Answer:- Option-A

Question49:-Which of the following statement/s is/are true

- (i) Agent responsible for causing disease is called a pathogen
- (ii) Organisms that derive nutrition from dead organisms are called parasites
- (iii) Organisms that kill host plants in advance of penetration are called necrotrophs
- (iv) Organisms that need living tissues for food are called biotrophs

A:-only (i) and (iv)

B:-Only (ii) and (iii)

C:-(i), (iii) and (iv)

D:-All of the above

Correct Answer:- Option-C

Question50:-Name the plant pathogen that shows the following characters

- (i) Microscopic and unicellular
- (ii) Lack of cellwall
- (iii) Passes through bacterial filters
- (iv) Pleomorphism

A:-Bacteria

B:-Fungi

C:-Virus

D:-Mycoplasma

Correct Answer:- Option-D

Question51:-Pick the odd one out

A:-Trichoderma viride

B:-Trichogramma japonicum

C:-Metarhizium anisopliae

D:-Verticillium lecanii

Correct Answer:- Option-A

Question52:-In agriculture IPDM is the abbreviation of

A:-Integrated Pest and Disease Mitigation

B:-International Phyto Disciplinary Module

C:-Interior Plants Designing Module

D:-Integrated Pest and Disease Management

Correct Answer:- Option-D

Question53:-The drying or wilting phase of BLB is termed as

A:-Blast

B:-Udbatta

C:-Necrosis

D:-Kresek

Correct Answer:- Option-D

Question54:-Flaccidity, Yellowing and Ribbing of fronds in coconut are the typical symptoms of

A:-Mahali

B:-Root Wilt

C:-Bud Rot

D:-Leaf Rot

Correct Answer:- Option-B

Question55:-A disease common in cardamom plantations where shade is not properly regulated

A:-Rhizome rot

B:-Azhukal

C:-Katte

D:-Chenthal

Correct Answer:- Option-D

Question56:-Panama Wilt in Banana is caused by

A:-Mycosphaerella sp

B:-Corticium salmonicolor

C:-Fusarium oxysporum

D:-Colletotrichum gloeosporioides

Correct Answer:- Option-C

Question57:-A major disease in Anthurium

A:-Powdery mildew

B:-Bud Rot

C:-Bacterial blight

D:-Downy mildew

Correct Answer:- Option-C

Question58:-Abnormal leaf fall in rubber is caused by

A:-Corticium salmonicolor

B:-Fusarium moniliforme

C:-Rhizoctonia solani

D:-Phytophthora meadii

Correct Answer:- Option-D

Question59:-In arecanut, Root feeding is suggested in the management of

A:-Stem bleeding

B:-Collar rot

C:-Yellow leaf disease

D:-Band disease

Correct Answer:- Option-A

Question60:-A plant protection chemical commonly used for seed treatment

A:-Carbendazim

B:-Captan

C:-Carboxin

D:-All of the above

Correct Answer:- Option-D

Question61:-The tag colour of Registered seed for identification of seed class is

A:-Golden Yellow

B:-White

C:-Purple

D:-Azar Blue

Correct Answer:- Option-C

Question62:-Identify the selection method of hybridization which is not used in self pollinated crops

A:-Pedigree method

B:-Double Cross Method

C:-Back Cross Method

D:-Bulk Method

Correct Answer:- Option-B

Question63:-Emasculation for hybridization is

A:-Removal of stamens from male parent

B:-Removal of stamens from female parent

C:-Covering male flowers with cloth bag



D:-Covering female flowers with cloth bag

Correct Answer:- Option-B

Question64:-Cytoplasmic genetic male sterile line is called

A:-A line

B:-B line

C:-R line

D:-F1 hybrid

Correct Answer:- Option-A

Question65:-Pure line selection is commonly followed in

A:-Cross pollinated crops

B:-Self pollinated crops

C:-Vegetatively propagated crops

D:-Both in self pollinated and cross pollinated crops

Correct Answer:- Option-B

Question66:-The terms recipient or recurrent parent and donor parent are associated with

A:-Pedigree method

B:-Bulk method

C:-Pureline selection

D:-Back cross method

Correct Answer:- Option-D

Question67:-Mother seed is another name of

A:-Nucleus seed

B:-Registered seed

C:-Certified seed

D:-Foundation seed

Correct Answer:- Option-D

Question68:-Panniyur-2 variety of Black pepper is an open pollinated progeny of

A:-Karimunda

B:-Kuthiravally

C:-Balankotta

D:-Perumkody

Correct Answer:- Option-C

Question69:-The hormone most suitable for cell division and multiplication in plant tissue culture is

A:-Auxin

B:-Cytokinin

C:-Gibberellin

D:-Ethylene

Correct Answer:- Option-B

Question70:-One of the commonly used surface sterilization agent in tissue culture is

A:-Sodium bicarbonate

B:-Chlorine solution

C:-Sodium hypochlorite

D:-Calcium hypochlorite

Correct Answer:- Option-C

Question71:-The seed act was passed in the year

A:-1966

B:-1961

C:-1963

D:-1965

Correct Answer:- Option-A

Question72:-The seed bill 2004 ensures

- A:-Farmers registration for use and exchange of seeds
- B:-Exemption for farmers registration for use and exchange of seeds
- C:-Allows farmers to produce and exchange hybrid seed
- D:-Allows farmers to sell his seed under a brand name

Correct Answer:- Option-B

Question73:-Central seed testing laboratory is located at

- A:-Ahmedabad
- B:-Kolkata
- C:-New Delhi
- D:-Lucknow

Correct Answer:- Option-C

Question74:-What is the most important type of Intellectual Property Right?

- A:-Copyright
- B:-Trade mark
- C:-Plant Breeders Rights
- D:-Patent

Correct Answer:- Option-D

Question75:-All the persons need to sell import and export seed should carry on the business with the conditions of license granted to them. It is a part of

- A:-Seed Control Order
- B:-Seed Act
- C:-Seed Bill
- D:-Seed Certification

Correct Answer:- Option-A

Question76:-Total area of rubber cultivation in Kerala is around

- A:-5.5 lakh ha
- B:-7.5 lakh ha
- C:-2.5 lakh ha
- D:-3.5 lakh ha

Correct Answer:- Option-A

Question77:-Removal of terminal bud with few leaves is \_\_\_\_\_ type of pruning.

- A:-Heading back
- B:-Shearing
- C:-Disbudding
- D:-Pinching

Correct Answer:- Option-D

Question78:-Training of living shrubs and trees into shapes of animals plants and different designs is called

- A:-Topiary
- B:-Trophy
- C:-Bonsai
- D:-Disbudding

Correct Answer:- Option-A

Question79:-Grafting method suitable for commercial multiplication of Cashew is

- A:-Stone grafting
- B:-Approach grafting
- C:-Softwood grafting
- D:-Side grafting

Correct Answer:- Option-C

Question80:-Khirni is a popularly used rootstock for

- A:-Mango

B:-Jackfruit

C:-Cashew

D:-Sapota

Correct Answer:- Option-D

Question81:-Embryo develops from synergids or antipodal cells of embryosac other than egg cell is called

A:-Apogamy

B:-Apospory

C:-Parthenogenesis

D:-Parthenocarp

Correct Answer:- Option-A

Question82:-Crop which is not propagated by stem modification is

A:-Tapioca

B:-Amorphophallus

C:-Onion

D:-Ginger

Correct Answer:- Option-A

Question83:-Croton is propagated by

A:-Hardwood cuttings

B:-Semi hardwood cuttings

C:-Softwood cuttings

D:-Herbaceous cuttings

Correct Answer:- Option-B

Question84:-The height of a raised nursery bed is around

A:-45 cm

B:-30 cm

C:-15 cm

D:-60 cm

Correct Answer:- Option-C

Question85:-Silver Thiosulfate (STS) is used for pretreatment in flowers to increase vase life by blocking \_\_\_\_\_ hormone.

A:-Cytokinin

B:-Auxin

C:-Gibberellin

D:-Ethylene

Correct Answer:- Option-D

Question86:-Which of the following factors affect the demand for a product?

(i) Tastes and preferences

(ii) Habits

(iii) Income

(iv) Season

A:-Only (i) and (ii)

B:-Only (iii) and (iv)

C:-Only (i) and (iii)

D:-All of the above

Correct Answer:- Option-D

Question87:-The organic certification body in Kerala

A:-ONECERT

B:-Green cert

C:-ECO CERT

D:-INDOCERT

Correct Answer:- Option-D

Question88:-Which is not an accreditation agency for accreditation of certification of bodies for certifying organic products in India?

- A:-APEDA (Agriculture and Processed Food Products Export Development Agency)
- B:-Rubber board
- C:-Coconut Development Board
- D:-Directorate of cashew and cocoa development

Correct Answer:- Option-B

Question89:-The goods which are known as goods of first order in view of their ability to give direct satisfaction

- A:-Personal goods
- B:-Producer goods
- C:-Consumer goods
- D:-Internal goods

Correct Answer:- Option-C

Question90:-A monopoly is a market with

- A:-Single buyer
- B:-Single seller
- C:-Few buyers
- D:-Few sellers

Correct Answer:- Option-B

Question91:-Which of the following statements is not true about utility?

- A:-Utility varies with purpose
- B:-Utility varies with time
- C:-Utility mean satisfaction
- D:-Utility need not be synonymous with pleasure

Correct Answer:- Option-C

Question92:-India ranks \_\_\_\_\_ position in terms of area under organic certification.

- A:-9<sup>th</sup>
- B:-5<sup>th</sup>
- C:-2<sup>nd</sup>
- D:-1<sup>st</sup>

Correct Answer:- Option-A

Question93:-The marketed surplus

- A:-is more than the marketable surplus
- B:-is less than the marketable surplus
- C:-is equal to the marketable surplus
- D:-all of the above

Correct Answer:- Option-D

Question94:-A market with large number of buyers and sellers and free competition among buyers and sellers is called

- A:-Perfect market
- B:-Regulated market
- C:-General market
- D:-National market

Correct Answer:- Option-A

Question95:-Which of the following schemes of Govt. of India promot organic farming?

- A:-PKVY
- B:-NMOOP
- C:-NFSM
- D:-All of the above

Correct Answer:- Option-D

Question96:-Demonstrating the procedure of budding and grafting comes under which type of demonstration

- A:-Method demonstration
  - B:-Result demonstration
  - C:-Composite demonstration
  - D:-None of the above
- Correct Answer:- Option-A

Question97:-According to the ministry of Human Resource Development, the youth group in India consist of persons in the age group

- A:-18-35
  - B:-15-35
  - C:-18-40
  - D:-15-40
- Correct Answer:- Option-B

Question98:-In a rural society, the size of community is

- A:-small
  - B:-medium
  - C:-small to medium
  - D:-medium to large
- Correct Answer:- Option-A

Question99:-Which of the following aids doesnot come under visual aids

- A:-Bulletin board
  - B:-Picture and photograph
  - C:-Motion picture
  - D:-Film strip
- Correct Answer:- Option-C

Question100:-Which of the following extension methods comes under mass methods

- (i) Leaflets
  - (ii) Newspaper
  - (iii) Study tour
  - (iv) Farm visit
- A:-(i) and (iii)
  - B:-(i) and (ii)
  - C:-(ii) and (iii)
  - D:-All of the above
- Correct Answer:- Option-B