OUAT

Question Paper - 2022

M.Sc Agriculture



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This question paper has been compiled on the basis of question paper shared by students after the exam.

Part - A

Q.1 Which one is a bottole gourd hybrid?

Ans

✗ A. PSPL

✗ B. Arka Bahar

✓ C. Pusa Manjari

✗ D. PSPR

Q.2 Who gave the Two-Step Flow Model in TOT

Ans

✓ A. Lazar Field

✗ B. David Berlo

✗ C. Seeman Knapp

✗ D. Rogers

Q.3 Which of the following represents comprehensive cost of cultivation?

Ans

✓ A. Cost C

✗ B. Cost A1

✗ C. Cost A2

✗ D. Cost B

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Q.4 Marketed Surplus is high in case of

Ans

✗ A. Large farmers

✓ B. Small & Marginal farmers

✗ C. Medium farmers

✗ D. All the same

Q.5 Which one of the following is not a mycoherbicide

Ans

✗ A. Divine

✗ B. Biomol

✓ C. Di quat

✗ D. Collego

Q.6 Bin inspection has to compulsorily be conducted after harvesting of which seed crop

Ans

✗ A. Tomato

✓ B. Maize

✗ C. Onion

✗ D. Sunflower

Q.7 Flood Resistant Rice cultivar which can withsatnd flood up to two weeks

Ans

✗ A. Swarna

✗ B. Panidhan

✓ C. Swarna-sub 1

✗ D. Varsa Dhan

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Q.8 Which of these micronutrients is absorbed by plants in cationic form?

Ans

✗ A. Mo

✗ B. Cl

✗ C. B

✓ D. Zn

Q.9 Principle of added returns and added costs will be used to know

Ans

✗ A. Level of output

✓ B. Level of input

✗ C. Price of outut

✗ D. Price of input

Q.10 The first stable product of photosynthesis

Ans

✗ A. DHAP

✗ B. Glucose

✗ C. RUBP

✓ D. 3PGA

Q.11 Which of the following aminoacid accumulates under water stress condition in plant?

Ans

✗ A. Glutamic acid

✗ B. Arginine

✗ C. Glycline

✓ D. Proline

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Q.12 Buckeye rot disease is associated in

Ans
- ✗ A. Brinjal
- ✓ B. Tomato
- ✗ C. Chilli
- ✗ D. Pumpkin

Q.13 How many layer poultry birds are recommended to provide sufficient droppings to sustain multilayer pisciculture unit of 750 fingerlings in pond area of 0.1 ha?

Ans
- ✗ A. 25
- ✗ B. 100
- ✓ C. 50
- ✗ D. 75

Q.14 rRNA synthesis takes place in

Ans
- ✗ A. Nucleus
- ✗ B. Mitochondrion
- ✓ C. Nucleolus
- ✗ D. Nucleoplasm

Q.15 In which pricing method, the firm charges low price for high quality offering.

Ans
- ✓ A. Value pricing
- ✗ B. Perceived value
- ✗ C. Going rate
- ✗ D. Mark up

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Q.16 E-Agriculture uses which App

Ans
- ✔ A. DAMINI
- ✘ B. OLA
- ✘ C. AMAZON
- ✘ D. Cultiapp

Q.17 Translocation of nutrient and water through xylem is due to

Ans
- ✘ A. Suction
- ✘ B. Bundle sheath cells
- ✔ C. Transpiration pull
- ✘ D. Guard cell

Q.18 Propanil, a post-emergence herbicide is readily absorbed by the

Ans
- ✘ A. Stem
- ✘ B. Root
- ✔ C. Leaf
- ✘ D. Flower

Q.19 Which of the following activity is not encouraged in green economy?

Ans
- ✘ A. Organic Agriculture
- ✔ B. Burning LPG
- ✘ C. Generating Solar Energy
- ✘ D. Promoting public transport

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Q.20 Diversified Farming System is otherwise known as

Ans
- ✗ A. Organic farming
- ✗ B. Ranching farming
- ✗ C. Specialized farming
- ✓ D. IFS

Q.21 Which of the following groups of microbes has the highest biomass in a fertile soil?

Ans
- ✗ A. Actinomycetes
- ✗ B. Bacteria
- ✓ C. Fungi
- ✗ D. Algae

Q.22 Which of the following can be best utilized for reclamation of sodic soil?

Ans
- ✗ A. Limestone
- ✓ B. Sulphur
- ✗ C. Stromatolyte
- ✗ D. Basic slag

Q.23 Diversified Farming System is otherwise known as

Ans
- ✗ A. Specialized farming
- ✗ B. Ranching farming
- ✗ C. Organic farming
- ✓ D. IFS

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Q.24 Among the following, which gene bank does not need regeneration of genotypes ?

Ans
- ✗ A. Seed gene bank
- ✗ B. Field gene bank
- ✗ C. Pollen bank
- ✓ D. Genome bank

Q.25 Which one of the following insects pupate in soil

Ans
- ✗ A. Pink borer of wheat
- ✗ B. Rice leaf-folder
- ✓ C. Melon fruit fly
- ✗ D. Soybean leafminer

Q.26 Which of the following mineral is not a phyllosilicate?

Ans
- ✗ A. Montmorillonite
- ✗ B. Kaolinite
- ✗ C. Illite
- ✓ D. Orthoclase

Q.27 Which is not a character of Flash Card

Ans
- ✗ A. Sequence
- ✗ B. Suspence
- ✗ C. Story
- ✓ D. Systematic

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Q.28 Which of the following hormone is known as ripening hormone

Ans
- ✔ A. Ethylene
- ✘ B. Auxin
- ✘ C. Abscisic acid
- ✘ D. Gibberellins

Q.29 Which step of adoption preceeds trial?

Ans
- ✘ A. Confirmation
- ✘ B. Awareness
- ✘ C. Interest
- ✔ D. Evaluation

Q.30 Androgenic haploids are most useful to their

Ans
- ✘ A. High productivity
- ✘ B. Development of foliages and flowers
- ✘ C. Excessive vigour
- ✔ D. Homozygous stocks

Q.31 The probability that a particular unit of population of size 200 will be included in the sample of size 10 is

Ans
- ✘ A. 0.001
- ✘ B. 0.1
- ✔ C. 0.05
- ✘ D. 0.01

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Q.32 Green water relates to water stored in

Ans
- ✗ A. Grass cover
- ✗ B. Land surface
- ✗ C. Forest Canopy
- ✓ D. Soil Profile

Q.33 Determination of extent of huskless seeds is a mandatory test in which crop ?

Ans
- ✗ A. Wheat
- ✓ B. Sunflower
- ✗ C. Ragi
- ✗ D. Maize

Q.34 Isle of Wight or Acarine disease in honey bees is caused by

Ans
- ✗ A. Euvarroa sinhai
- ✗ B. Varroa jacobsoni
- ✓ C. Acarapis woodi
- ✗ D. Tropilaelaps clareae

Q.35 If tax rate is same irrespective of the level of income, it is called

Ans
- ✗ A. Proportional Taxation
- ✓ B. Regressive taxation
- ✗ C. Progressive taxation
- ✗ D. Digressive taxation

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Q.36 Which is not a component of extension programme planning cycle by "Kelsey"

Ans
- ✗ A. Situation analysis
- ✓ B. Social Audit
- ✗ C. Evaluation
- ✗ D. Reconsideration

Q.37 Which instrument is used for protoplast counting

Ans
- ✗ A. Photocytometer
- ✓ B. Haemocytometer
- ✗ C. Cell-sorter
- ✗ D. Flow cytometry

Q.38 For efficient utilization of light, the optimum angle of inclination of the leaves in degree is

Ans
- ✗ A. 15
- ✓ B. 20
- ✗ C. 81
- ✗ D. 30

Q.39 Sheath blight of rice can be effectively managed by

Ans
- ✗ A. Thiram
- ✓ B. Validamycin
- ✗ C. Oxycarboxin
- ✗ D. Sulphur

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Q.40 The most efficient indigenous earthworm species used in India for vermicomposting is

Ans
- ✗ A. Eisenia foetida
- ✗ B. Eudrillus eugeniae
- ✗ C. Lumbricus rubellus
- ✓ D. Perionyx excavatus

Q.41 The genus Meloidogyne indicates

Ans
- ✗ A. Host
- ✓ B. Shape
- ✗ C. Size
- ✗ D. Sex

Q.42 Bull head is a physiological disorder of

Ans
- ✗ A. Chrysanthemum
- ✗ B. Gladiolus
- ✓ C. Rose
- ✗ D. Carnation

Q.43 Village adoption scheme was first started by

Ans
- ✗ A. Punjab National Bank
- ✓ B. SBI
- ✗ C. IDBI
- ✗ D. ICICI

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Q.44 Water held between field capacity and permanent wilting point is called

Ans
- ✗ A. Capillary water
- ✗ B. Gravitational water
- ✓ C. Available water
- ✗ D. Hygroscopic water

Q.45 Which of the followings is not a cross vein of wing

Ans
- ✗ A. Medial
- ✓ B. Anal
- ✗ C. Radial
- ✗ D. Humeral

Q.46 An example of dicot albuminous seed is

Ans
- ✗ A. Sunflower
- ✗ B. Greengram
- ✗ C. Cotton
- ✓ D. Castor

Q.47 Cellulose content is high in

Ans
- ✓ A. Secondary wall
- ✗ B. Middle lamella
- ✗ C. Primary wall
- ✗ D. Tertiary wall

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Q.48 Powdery mildew is a serious disease of

Ans

✔ A. Mango

✘ B. Pear

✘ C. Guava

✘ D. Banana

Q.49 What does it mean, if a trait shows broad sense heritability?

Ans

✘ A. The trait is partly genetic

✔ B. The trait is purely environmental and partly genetic

✘ C. The trait is purely environmental

✘ D. The trait doesnot exist

Q.50 Histels is a suborder of which soil order?

Ans

✔ A. Gelisols

✘ B. Histosols

✘ C. Mollisols

✘ D. Alfisols

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Q.51 Extent of variation between different characters with different scales can be compared by

Ans
- ✗ A. S.E. (d)
- ✓ B. C.V
- ✗ C. B.E (m)
- ✗ D. C.D

Q.52 Cryptolaemus montrouzieri is a predator released in grapes to manage

Ans
- ✓ A. Mealybug
- ✗ B. Flea beetle
- ✗ C. Shoot hole borer
- ✗ D. Fruit fly

Q.53 In sorghum dead hearts with more side tillers is characteristic symptoms of

Ans
- ✗ A. Sorghum midge
- ✓ B. Shoot fly
- ✗ C. Stem borer
- ✗ D. Ear head bug

Q.54 Condition when the reservoirs, tanks and ponds dry is called as

Ans
- ✗ A. Meteorological drought
- ✓ B. Hydrological drought
- ✗ C. Atmospheric drought
- ✗ D. Agricultural drought

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Q.55 Which of the following is practiced to get large bloom in florist chrysanthemum?

Ans
- ✗ A. Pinching
- ✗ B. Pruning
- ✗ C. Defoliation
- ✓ D. Disbudding

Q.56 A recently released potato variety with purple skin is

Ans
- ✗ A. Kufri Pukhraj
- ✗ B. Kufri Ganga
- ✓ C. Kufri Neelkanth
- ✗ D. Kufri Jyoti

Q.57 Which of the following hormone is directly involved in abscission?

Ans
- ✗ A. Cytokinin
- ✗ B. Abscissic acid
- ✗ C. Brassinosteroid
- ✓ D. Ethylene

Q.58 Pulvillus is the terminal part of

Ans
- ✗ A. Insect antenna
- ✗ B. Insect genitalia
- ✗ C. Insect wing
- ✓ D. Insect leg

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Q.59 Institutional linkage of community members can be plotted by-

Ans
- ✗ A. Social Map
- ✓ B. Venn Diagram
- ✗ C. Transect
- ✗ D. Matrix ranking

Q.60 In India, which percentage of total net sown area comes under dryland agriculture.

Ans
- ✗ A. 20
- ✓ B. 60
- ✗ C. 50
- ✗ D. 80

Q.61 Virus vector nematode is

Ans
- ✓ A. Dagger Nematode
- ✗ B. Reniform Nematode
- ✗ C. Lesion Nematode
- ✗ D. Root knot Nematode

Q.62 Sub soiling is the mechanical method of breaking impermeable layer to enhance in soil.

Ans
- ✓ A. Infiltration
- ✗ B. Hydraulic conductivity
- ✗ C. Texture
- ✗ D. Structure

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Q.63 Tulipomania is related to

Ans
- ✗ A. Bacteria
- ✓ B. Virus
- ✗ C. Fungi
- ✗ D. Viroids

Q.64 The difference in water content between the precipitation and infiltration is known as

Ans
- ✗ A. Suspension
- ✓ B. Runoff
- ✗ C. Sheet erosion
- ✗ D. Splash Erosion

Q.65 The process by which nitrate is reduced to oxides of nitrogen and gaseous nitrogen is called

Ans
- ✗ A. Aminization
- ✓ B. Denitrification
- ✗ C. Nitrification
- ✗ D. Ammonification

Q.66 Rent, wages, interest, and profit are related to the term

Ans
- ✗ A. Consumption
- ✗ B. Exchange
- ✓ C. Distribution
- ✗ D. Production

Q.67 Akiochi disease in rice is due to the toxicity caused by

Ans
- ✗ A. Iron
- ✗ B. Phosphorous
- ✗ C. Zinc
- ✓ D. Hydrogen sulphide

Q.68 Correlation coefficient is affected by

Ans

- ✗ A. Origin
- ✗ B. Both origin and scale
- ✗ C. Scale
- ✓ D. Neither origin nor scale

Q.69 Which is the smallest unit of culture?

Ans

- ✓ A. Culture trait
- ✗ B. Culture pattern
- ✗ C. Culture complex
- ✗ D. Culture base

Q.70 Process of loosening for separating fibres from jute plant is known as

Ans

- ✓ A. Retting
- ✗ B. Netting
- ✗ C. Curing
- ✗ D. Wetting

Q.71 The mites have how many pairs of antennae

Ans

- ✗ A. Three
- ✗ B. Two
- ✓ C. Nil
- ✗ D. One

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Q.72 Which pest is responsible for transmitting bud necrosis in groundnut?

Ans

✗ A. Leaf miner

✗ B. Red haiey caterpillar

✓ C. Thrips

✗ D. Aphids

Q.73 When staminate pistillate and hermaphordite flowers are borne on the same plant it is called

Ans

✗ A. Andromonoeious

✓ B. Trimonoecious

✗ C. Gynodioecious

✗ D. Gynaomonoecious

Q.74 An isometric virion particle is morphologically spherical but geometrically

Ans

✗ A. Straight line

✗ B. Helical

✓ C. Polyhedron

✗ D. Polygon

Q.75 Turcicum leaf blight is associated with

Ans

✗ A. Finger millet

✓ B. Maize

✗ C. Pearl millet

✗ D. Sorghum

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Q.76 Which is the last step of a programme planning cycle?

Ans
- ✗ A. Evaluation
- ✗ B. Objective setting
- ✓ C. Reconsideration
- ✗ D. Facilitation

Q.77 Frequent change of morphological form by bacteria is termed as

Ans
- ✗ A. Metamorphism
- ✓ B. Pleomorphism
- ✗ C. Alteromorphism
- ✗ D. Lysogeny

Q.78 Change of behaviour through self activity is called as-

Ans
- ✗ A. Teaching
- ✗ B. Educating
- ✗ C. Motivating
- ✓ D. Learning

Q.79 The ratio of water stored in the root zone of the plant to the water delivered to the field is called

Ans
- ✗ A. Distribution efficiency
- ✓ B. Application efficiency
- ✗ C. Conveyance efficiency
- ✗ D. Storage efficiency

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Q.80 In case of joint products, the production possibility curve is

Ans
- ✗ A. U-shaped
- ✗ B. L-shaped
- ✗ C. Concave
- ✓ D. Inverted L-shaped

Q.81 Mental acceptance of innovation is called as

Ans
- ✗ A. Confirmation
- ✗ B. Diffusion
- ✓ C. Symbolic adoption
- ✗ D. Adoption

Q.82 A double zero mustard variety has

Ans
- ✓ A. Low erucic acid and glucosinulates
- ✗ B. Absence of oil and protein in seed
- ✗ C. Double dwarfing gene
- ✗ D. No oil content in seed

Q.83 The disease caused by Ricketssia like bacteria

Ans
- ✗ A. Sandal spike
- ✓ B. Citrus greening
- ✗ C. Citrus canker
- ✗ D. BLS of paddy

Q.84 The soil potassium is estimated by an instrument known as

Ans
- ✔ A. Flame photometer
- ✘ B. Spectrophotometer
- ✘ C. Colorimeter
- ✘ D. Conductivity meter

Q.85 Acccording to Thornthwaite climatic classification of India,The P/E index in Humid Climate is

Ans
- ✔ A. 64 to 127
- ✘ B. 127
- ✘ C. 16 to 32
- ✘ D. 32 to 64

Q.86 The per cent content of sulphur in Single Super Phosphate is

Ans
- ✔ A. 12
- ✘ B. 16
- ✘ C. 8
- ✘ D. 20

Q.87 Contract farming is an example of

Ans
- ✘ A. Forward integration
- ✘ B. Diversification
- ✘ C. Conglomeration
- ✔ D. Backward integration

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Q.88 The concept of SCA was developed by

Ans
- ✔ A. F.H. Hull
- ✘ B. E.M. East
- ✘ C. H.K. Hayes
- ✘ D. M.T. Jenkins

Q.89 Precursor of IAA is

Ans
- ✘ A. Mevalonic acid
- ✘ B. Methionine
- ✘ C. Leucine
- ✔ D. Tryptophan

Q.90 Net National Product at market prices is higher than Net national Product at factor cost, because

Ans
- ✘ A. Market price are higher than factor cost
- ✘ B. Factor costs are higher than market price
- ✘ C. Indirect taxes are lower than subsidies
- ✔ D. Indirect taxes higher than subsidies

Q.91 Spiral cut on the grapevine is the damage caused by

Ans
- ✔ A. Stem girdler
- ✘ B. Flea beetle
- ✘ C. Stem borer
- ✘ D. Mealy bug

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Q.92 Blister blight of tea is caused by

Ans
- ✗ A. Taphrina
- ✗ B. Venturia
- ✗ C. Alternaria
- ✓ D. Exobasidium

Q.93 Which hormone is called as stress hormone?

Ans
- ✗ A. GA
- ✓ B. ABA
- ✗ C. Cytokinin
- ✗ D. Auxin

Q.94 Which of the following shows the genetic relationship among six Brassica species?

Ans
- ✗ A. Mendel's first law of inheritance
- ✗ B. Wobble hypothesis
- ✓ C. U's triangle
- ✗ D. Mendel's second law of inheritance

Q.95 The structure of Agri-business is generally

Ans
- ✓ A. Vertical
- ✗ B. Horizontal
- ✗ C. Neither horizontal nor Vertical
- ✗ D. Conglomerate

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Q.96 In case of black gram a breeder observed that the difference between PCV and GCV value is very low for number of pods per plant. What information can he draw?

Ans
- ✗ A. Response to selection is low
- ✓ B. The trait is not influenced by environment
- ✗ C. Response to selection is high
- ✗ D. The trait is highly influenced by environment

Q.97 Which of the following forms of nitrogen is most abundant in waterlogged soil?

Ans
- ✗ A. Nitrite
- ✓ B. Ammonium
- ✗ C. Amide
- ✗ D. Nitrate

Q.98 Deviation from the additive scheme resulting inter allelic interaction is called

Ans
- ✓ A. Epistatic variance
- ✗ B. Non additive variance
- ✗ C. Dominance variance
- ✗ D. Additive variance

Q.99 Which of the following pesticide is used to control red spider mite in brinjal

Ans
- ✗ A. Thiamethoxam
- ✗ B. Imidacloprid
- ✓ C. Propargite
- ✗ D. Rynaxypyr

Q.100 Pollen germination requires which of the following element?

Ans
- ✓ A. Boron (B)
- ✗ B. Chlorine (C)
- ✗ C. Potassium (K)
- ✗ D. Phosphorous (P)

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Q.101 The demand price is identical with

Ans
- ✗ A. Total revenue
- ✗ B. Negative
- ✓ C. Average revenue
- ✗ D. Marginal revenue

Q.102 The yield of pigeon pea and rice in pigeon pea plus rice intercropping are 1500 and 800 kg per hectare respectively. The sole crop yields of respective crops are 2000 and 1600 kg per hectare. The land equivalent ratio is

Ans
- ✓ A. 1.25
- ✗ B. 1.5
- ✗ C. 1.75
- ✗ D. 1.1

Q.103 which of the following is the seventh "P" of credit?

Ans
- ✗ A. Principle of Payment
- ✗ B. Principle of Phased disbursement
- ✓ C. Principle of Protection
- ✗ D. Principle of Proper utilization

Q.104 Which is the most popular method for developing lawn for a home garden ?

Ans
- ✓ A. Dibbling
- ✗ B. Turfing
- ✗ C. Plastering
- ✗ D. Seed sowing

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Q.105 Monograph on "Dryland farming in India" was written by

Ans
- ✗ A. M. Veclindon
- ✗ B. J. Thornthwaite
- ✓ C. N. V. Kanitkar
- ✗ D. V.A. Tamhane

Q.106 When one firm gains control over other firm performing similar type of functions, it is called:

Ans
- ✗ A. Spatial integration
- ✗ B. Conglomeration
- ✗ C. Vertical integration
- ✓ D. Horizontal integration

Q.107 Antennule is found in case of

Ans
- ✗ A. Diplopoda
- ✓ B. Crustacea
- ✗ C. Chilopoda
- ✗ D. Insecta

Q.108 Product-Product relationship is concerned with

Ans
- ✗ A. Resource combination
- ✗ B. Resource use efficiency
- ✓ C. Resource allocation
- ✗ D. resource productivity

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Q.109 Which of the following is not a component of watershed management

Ans
- ✔ A. Irrigation
- ✘ B. Water harvesting
- ✘ C. Alternate land use system
- ✘ D. Afforestation

Q.110 Protein biosynthesis by ribosomes requires

Ans
- ✘ A. Calcium
- ✘ B. Potassium
- ✘ C. Sodium
- ✔ D. Magnesium

Q.111 Production is function of

Ans
- ✘ A. Profit
- ✘ B. prices
- ✘ C. Cost
- ✔ D. Factors

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Q.112 Mangiferin is a natural carrier of

Ans
- ✗ A. Manganese and Magnesium
- ✗ B. Cupper and Calcium
- ✗ C. Cupper and Magnesium
- ✓ D. Znic and Cupper

Q.113 In stratified mass selection, grids are used to

Ans
- ✓ A. Reduce environmental variance
- ✗ B. Compare performance of selected individuals
- ✗ C. Develop homogeneous population
- ✗ D. Control field heterogeneity

Q.114 The contributor of D genome to cultivated wheat is

Ans
- ✗ A. Triticum monococcum
- ✗ B. Triticum spelta
- ✓ C. Aegilops squarrosa
- ✗ D. Aegilops speltoides

Q.115 Cations not extracted by 1N neutral ammonium acetate from soil are termed as

Ans
- ✓ A. Non exchangeable
- ✗ B. Exchangeable
- ✗ C. Soluble
- ✗ D. Available

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Q.116 The influence on climate of carbon dioxide is mainly due to its ability to absorb

Ans
- ✗ A. Water
- ✗ B. Helium
- ✗ C. Argon
- ✓ D. Infrared radiation

Q.117 Synthetic pyrethroids are

Ans
- ✗ A. Thermolabile
- ✗ B. Late acting
- ✗ C. Photolabile
- ✓ D. Thermostable

Q.118 How much chlorpyriphos 20 EC will be required per acre area if it is to be sprayed at 0.02 per cent concentration (Spray volume per acre is 200 liters)

Ans
- ✗ A. 20 ml
- ✗ B. 10 ml
- ✓ C. 200 ml
- ✗ D. 100 ml

Q.119 How many layer poultry birds are recommended to provide sufficient droppings to sustain multilayer pisciculture unit of 750 fingerlings in pond area of 0.1 hectare?

Ans
- ✓ A. 50
- ✗ B. 100
- ✗ C. 25
- ✗ D. 75

Q.120 Cole crops posses which special property ?

Ans
- ✓ A. Anti-cancer
- ✗ B. Antibacterial
- ✗ C. Anti-diabetic
- ✗ D. Anti fungal

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Q.121 The minimum percentage of genetic purity of hybrid (certified) brinjal seed should be

Ans
- ✗ A. 95
- ✗ B. 100
- ✓ C. 90
- ✗ D. 98

Q.122 The antidote for carbamate poisoning is

Ans
- ✓ A. Atropine Sulphate
- ✗ B. PAM
- ✗ C. Phenobarbital
- ✗ D. Barbiturates

Q.123 The soil property that can be measured by pressure plate apparatus is

Ans
- ✗ A. Bulk density
- ✓ B. Permanent wilting point
- ✗ C. Particle density
- ✗ D. Soil strength

Q.124 Under WTO in Agriculture, all measures that directly support prices or subsidies related to production quantities are included in the

Ans
- ✗ A. Red Box
- ✗ B. Green Box
- ✗ C. Amber Box
- ✓ D. Blue Box

Q.125 Which weed is associated with wheat crop

Ans
- ✓ A. Phalaris minor
- ✗ B. Avena fatua
- ✗ C. Cyperus rotundus
- ✗ D. Anagalis arvensis

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Q.126 The disease caused by podosphaera pannosa in rose is:

Ans
- ✗ A. Grey mildew
- ✗ B. Dieback
- ✓ C. Powdery mildew
- ✗ D. Blackspot

Q.127 Which of the following variance component is essential for genetic gain?

Ans
- ✗ A. Environmental variation
- ✗ B. Dominance genetic variance
- ✗ C. Interaction variance
- ✓ D. Additive genetic variance

Q.128 Polygenic characters follow which pattern of inheritance?

Ans
- ✗ A. None of the above
- ✓ B. Mendelian inheitance
- ✗ C. Hardy Weinbergs'Slaw
- ✗ D. Non-Mendelian inheritance

Q.129 As per the cost principle, the maximum net revenue is possible when

Ans
- ✗ A. Total cost equals total return
- ✓ B. Marginal cost equals marginal return
- ✗ C. Average cost equals Average return
- ✗ D. Opportunity cost equals Opportunity return

Q.130 'Lattice hole' theory of potassium fixation was proposed by

Ans
- ✔ A. Page and Baver
- ✘ B. Mclean
- ✘ C. F. E. Bear
- ✘ D. M. L. Jackson

Q.131 The double standard DNA molecules losses its viscosity upon

Ans
- ✔ A. Denaturation
- ✘ B. Filtration
- ✘ C. Sedimentation
- ✘ D. Concentration

Q.132 When there is elastic demand, the increase in price

Ans
- ✘ A. Incresae the revenue
- ✘ B. No relationship
- ✔ C. Decrease the revenue
- ✘ D. Revenue remain unchanged

Q.133 Skeptical leader of community are found in which adopter category?

Ans
- ✘ A. Laggard
- ✘ B. Early adopter
- ✘ C. Early majority
- ✔ D. Late majority

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Q.134 Which method is having indirect feedback?

Ans
- ✗ A. Lecture
- ✓ B. TV
- ✗ C. Demonstration
- ✗ D. Campaign

Q.135 Irrigation is beneficial to control which disease of potato crop

Ans
- ✗ A. Early blight
- ✓ B. Scab
- ✗ C. Late blight
- ✗ D. Bacterial wilt

Q.136 Majority of plants take up N in the form of

Ans
- ✗ A. Ammonical-N
- ✓ B. Nitrate-N
- ✗ C. Molecular-N
- ✗ D. Organic-N

Q.137 Processing of products add

Ans
- ✗ A. Possession utility
- ✗ B. Time utility
- ✗ C. Space utility
- ✓ D. Form utility

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Q.138 When high C : N ratio (more than 60 : 1) substances are incorporated in soil, which of the following processes becomes dominant?

Ans
- ✔ A. Immobilization
- ✘ B. Denitrification
- ✘ C. Nitrification
- ✘ D. Mineralization

Q.139 Among cloud types, those that occur at the highest altitudes are the

Ans
- ✘ A. Cumulus
- ✘ B. Altocumulus
- ✔ C. Cirrus
- ✘ D. Stratus

Q.140 Ripe rot of chilli causing pathogen produces

Ans
- ✘ A. Cleistothecia
- ✘ B. Pycnidia
- ✘ C. Perithecia
- ✔ D. Acervulus

Q.141 Nematode exhibits sexual dimorphism

Ans
- ✘ A. Lance
- ✘ B. Dagger
- ✘ C. Spiral
- ✔ D. Cyst

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Q.142 Which of the following is a monocyclic disease

Ans
- ✗ A. Cercospora blight of mung
- ✓ B. Smut of sugarcane
- ✗ C. Late blight of potato
- ✗ D. Early blight of tomato

Q.143 The variation between two variables in a bivariate distribution is known as

Ans
- ✗ A. Variance
- ✗ B. Standard deviation
- ✗ C. Coefficient of Variation
- ✓ D. Covariance

Q.144 A chromatid represents :

Ans
- ✗ A. A complete chromosome
- ✓ B. One half of a chromosome
- ✗ C. Diploid number
- ✗ D. Haploid number

Q.145 Pulse proteins are rich in which of the following amino acids ?

Ans
- ✗ A. Methionine
- ✗ B. Isoleucine
- ✓ C. Lysine
- ✗ D. Leucine

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Q.146 Integral proteins are also known as

Ans
- ✗ A. Bilayer proteins
- ✗ B. Glycosylated proteins
- ✗ C. Intrinsic proteins
- ✓ D. Transmembrane proteins

Q.147 Which weed is indicator plant for NO2 Pollution

Ans
- ✗ A. Tridax Procumbens
- ✗ B. Phylanthes niruri
- ✓ C. Brassica kaber
- ✗ D. Cyperus rotundus

Q.148 Which part of the alimentary canal of insects is not protected by cuticle

Ans
- ✗ A. Hindgut
- ✓ B. Midgut
- ✗ C. Oesophagous
- ✗ D. Foregut

Q.149 Which one of the following disease is caused by bacteria in silkworms

Ans
- ✓ A. Flacherie
- ✗ B. Muscardine
- ✗ C. Pebrine
- ✗ D. Grasserie

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Q.150 Which is an acid forming parent material.

Ans
- ✔ A. Gneiss
- ✘ B. Plagioclase feldspar
- ✘ C. Limestone
- ✘ D. Basalt

Q.151 The best soil structure from fertility point of view is

Ans
- ✘ A. Blocky
- ✘ B. Prismatic
- ✔ C. Spherical
- ✘ D. Platy

Q.152 Which one is a dwaft root stock of Apple

Ans
- ✘ A. M-12
- ✘ B. M-25
- ✘ C. M-11
- ✔ D. M-9

Q.153 What is not an element of diffusion process?

Ans
- ✘ A. Communication
- ✘ B. Over time
- ✘ C. Innovation
- ✔ D. Rejection

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Q.154 Cauliflower mosaic virus is having

Ans
- ✔ A. ds DNA
- ✘ B. ss DNA
- ✘ C. ds RNA
- ✘ D. ss RNA

Q.155 The variance of first 20 natural numbers is

Ans
- ✘ A. 33.33
- ✘ B. 0
- ✔ C. 33.25
- ✘ D. 40

Q.156 Which incidence made to believe fungi as causl agent of plant diseases

Ans
- ✘ A. Southern blight
- ✔ B. Irish famine
- ✘ C. Coffe rust in Srilanka
- ✘ D. Bengal famine

Q.157 The beetle Zygogramma bicolorata introduced for controlling congress grass, has been found to be a pest on

Ans
- ✘ A. Safflower
- ✔ B. Sunflower
- ✘ C. Groundnut
- ✘ D. Sesamum

Q.158 The scientific name of Australian ladybird beetle is

Ans
- ✘ A. Micraspis discolor
- ✘ B. Scymnus coccivora
- ✔ C. Cryptolaemus montruzieri
- ✘ D. Rodolia cardinalis

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Q.159 The oxidation of sulfur to sulfates is performed by

Ans
- ✔ A. Thiobacillus thioxidans
- ✘ B. Desulfotomaculum sp.
- ✘ C. Rhodospirillum sp.
- ✘ D. Rhodomicrobium sp.

Q.160 Hemileia vastatrix causes rust in

Ans
- ✘ A. Bean
- ✘ B. Ground nut
- ✘ C. Tea
- ✔ D. Coffee

Q.161 Which of the following substances is closely associated with the breakdown of the ozone layer?

Ans
- ✔ A. Chlorofluorocarbon
- ✘ B. Nitrogen oxides
- ✘ C. Water vapor
- ✘ D. Carbon dioxide

Q.162 Which of the following material is the most resistant to microbial decomposition?

Ans
- ✔ A. Lignin
- ✘ B. Proteins
- ✘ C. Sugars
- ✘ D. Cellulose

Q.163 Intercropping during seed production is permitted for certified seed production of

Ans
- ✘ A. Ornamental crops
- ✘ B. Cereals
- ✘ C. Vegetable crops
- ✔ D. Pulses and oilseeds

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Q.164 Coincidence of susceptible period of the host with favourable conditions for the pathogen can be avoided by which of the following method

Ans
- ✗ A. Rouging
- ✗ B. Clean cultivation
- ✓ C. Alternation in date of planting
- ✗ D. Denseplanting

Q.165 Improvement in mean genetic value of selected parents over that of the parental population is known as

Ans
- ✗ A. Coefficient of variation
- ✓ B. Genetic advance
- ✗ C. Heritability
- ✗ D. Genetic variation

Q.166 2-4-D is an important translocated herbicide of

Ans
- ✗ A. Pulses
- ✗ B. Small grain crops
- ✗ C. Oilseeds
- ✓ D. Maize

Q.167 In red rot of sugarcane the sucrose is converted to

Ans
- ✗ A. Fructose and alcohol
- ✗ B. Glucose and ethanol
- ✗ C. Maltose and alcohol
- ✓ D. glucose and alcohol

Q.168 If on a 20 acre farm, crops are raised on 15 acres in rabi, 15 acres in zaid and 20 acres in kharf in a year, what will be the cropping intensity in percentage?

Ans
- ✓ A. 250
- ✗ B. 300
- ✗ C. 150
- ✗ D. 400

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Q.169 What is maximum time gap between filing of provisional and complete specification patent applications?

Ans
- ✔ A. 12 months
- ✘ B. 24 months
- ✘ C. 6 months
- ✘ D. 18 months

Q.170 Most abundant and basic Auxin is

Ans
- ✘ A. NAA
- ✔ B. IAA
- ✘ C. IBA
- ✘ D. 2-4 D

Q.171 The amino acid accumulated in plant under stress condition

Ans
- ✘ A. Lysine
- ✘ B. Methionine
- ✘ C. Tryptophan
- ✔ D. Proline

Q.172 The above ground symptom caused by below ground parasite

Ans
- ✔ A. Wilting
- ✘ B. Seed gall
- ✘ C. Crinkling
- ✘ D. Distortion

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Q.173 The first source of dwarfisim in rice was found in

Ans
- ✗ A. Taichung Native-1
- ✗ B. Tsai-yuan-Chung
- ✓ C. Dee-geo-woo-gen
- ✗ D. Peta

Q.174 A chromosome with diffused centromere is known as

Ans
- ✗ A. acentric
- ✗ B. polycentric
- ✗ C. telocentric
- ✓ D. holokinetic

Q.175 Kg of crop yield increase per kg of nutrient applied is

Ans
- ✗ A. Physiological efficiency
- ✗ B. Partial factor productivity
- ✗ C. Apparent recovery efficiency
- ✓ D. Agronomic efficiency

Q.176 Presence of low exchangeable sodium makes the soil

Ans
- ✓ A. Flocculated
- ✗ B. Dispersed
- ✗ C. Separated
- ✗ D. Reactive

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Q.177 The yield of pigeon pea and rice in pigeon pea plus rice intercropping are 1500 and 800 kg per hectare respectively. The sole crop yields of respective crops are 2000 and 1600 kg per hectare. The land equivalent ratio is

Ans
- ✗ A. 1.5
- ✗ B. 1.1
- ✗ C. 1.75
- ✓ D. 1.25

Q.178 Study of causes of disease is known as

Ans
- ✗ A. Pathology
- ✓ B. Etiology
- ✗ C. Symptomatology
- ✗ D. Epidemiology

Q.179 In false colour composite (FCC), healthy vegetation appears

Ans
- ✗ A. Blue
- ✓ B. Red
- ✗ C. Green
- ✗ D. Black

Q.180 For purity analysis of beet seeds, the mesh size of sieve used for separating pure seed from inert matter is

Ans
- ✗ A. 1.5 x 2.0 mm
- ✗ B. 5 x 20 mm
- ✓ C. 1.5 x 20 mm
- ✗ D. 15 x 20 mm

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Part - B

Q.1 The antinutritional factor present in sunflower is

Ans

✗ A. Oleic acid

✗ B. Erucic acid

✗ C. Linoleic acid

✓ D. Chlorogenic acid

Q.2 In human body, chickpea can reduce

Ans

✗ A. Blood pressure

✗ B. Blood protein

✓ C. Blood cholesterol

✗ D. Blood sugar

Q.3 Which one of the following is a green leaf manure shrub

Ans

✗ A. Dhanicha

✗ B. Sunhemp

✓ C. Glyricidia

✗ D. Wild indigo

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Q.4 Pink calyx is a physiological disorder found in

Ans
- ✗ A. Plum
- ✓ B. Pear
- ✗ C. Cherry
- ✗ D. Peach

Q.5 Which weed is associated with wheat crop?

Ans
- ✗ A. Avena fatua
- ✓ B. Phalaris minor
- ✗ C. Cyperus rotundus
- ✗ D. Anagalis arvensis

Q.6 Which is a popular foliage annual ?

Ans
- ✗ A. Petunia
- ✗ B. Coreopsis
- ✓ C. Kochia
- ✗ D. Phlox

Q.7 Which one of the following crops suitable for alkali soil?

Ans
- ✗ A. Wheat
- ✗ B. Cowpea
- ✗ C. Maize
- ✓ D. Paddy

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Q.8 Dust mulching is done in

Ans
- ✗ A. Groundnut
- ✓ B. Safflower
- ✗ C. Mustard
- ✗ D. Sunflower

Q.9 An aquatic leguminous crop which have nodules both on the stem and roots is _____

Ans
- ✗ A. Sesbania speciosa
- ✓ B. Sesbania rostrata
- ✗ C. Sesbania sesban
- ✗ D. Sesbania aculata

Q.10 Irish potato is

Ans
- ✓ A. Tetraploid
- ✗ B. Hexaploid
- ✗ C. Diploid
- ✗ D. Triploid

Q.11 Nipping of auxillary buds is practised in

Ans
- ✗ A. Niger
- ✗ B. Sesame
- ✗ C. Sunflower
- ✓ D. Castor

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Q.12 Amongst oil cakes, the highest nitrogen is in

Ans
- ✗ A. Castor cake
- ✗ B. Coconut cake
- ✓ C. Groundnut Cake
- ✗ D. Neem cake

Q.13 Ruby is a multiple hybrid of

Ans
- ✗ A. Guava
- ✓ B. Pomegranate
- ✗ C. Litchi
- ✗ D. Grape

Q.14 Which of the fruit is suitable for marmalade

Ans
- ✗ A. D. Mango
- ✗ B. A. Litchi
- ✓ C. C. Orange
- ✗ D. B. Guava

Q.15 Which a non-climacteric in nature

Ans
- ✓ A. Litchi
- ✗ B. Apple
- ✗ C. Jack fruit
- ✗ D. Mango

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Q.16 Amongst oil cakes, the highest nitrogen is in

Ans
- ✗ A. Castor cake
- ✓ B. Groundnut Cake
- ✗ C. Neem cake
- ✗ D. Coconut cake

Q.17 TLCV and Bacterial wilt resistant tomato is

Ans
- ✓ A. Arka Rakshak
- ✗ B. Arka Vishal
- ✗ C. Arka Vardhan
- ✗ D. Arka samrat

Q.18 Which of the following Jasminum species is grown for oil extraction

Ans
- ✗ A. Jsminum flexile
- ✗ B. Jasminum multiflorum
- ✗ C. Jasminum sambac
- ✓ D. Jasminum grandiflorum

Q.19 Which cereal is non-tillering in nature?

Ans
- ✗ A. Wheat
- ✗ B. Paddy
- ✗ C. Barley
- ✓ D. Maize

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Q.20 Which of following is not a cultivar of Tuberose ?

Ans
- ✗ A. Prajwal
- ✓ B. Surabhi
- ✗ C. Nirantara
- ✗ D. Shringar

Q.21 Bitterness in brinjal is due to

Ans
- ✗ A. Solanin
- ✓ B. Solasodin
- ✗ C. Saponin
- ✗ D. Tomatin

Q.22 Canola is a group of plants belongs to

Ans
- ✓ A. Mustard
- ✗ B. Niger
- ✗ C. Safflower
- ✗ D. Sunflower

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Q.23 Which of the following medicinal plant is an ornamental plant?

Ans
- ✗ A. Aegle marmelos
- ✗ B. Plantago ovata
- ✗ C. Piper longum
- ✓ D. Vinca rosea

Q.24 Negative geotropism is associated with _____crop

Ans
- ✓ A. Gladiolus
- ✗ B. Tuberose
- ✗ C. Carnation
- ✗ D. Rose

Q.25 Calyx splitting is associated with which crop?

Ans
- ✗ A. Gladiolus
- ✓ B. Carnation
- ✗ C. Rose
- ✗ D. Lilium

Q.26 World's leading fibre crop is

Ans
- ✓ A. Cotton
- ✗ B. Mesta
- ✗ C. Jute
- ✗ D. Sunhemp

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Q.27 Pungency in radish is due to

Ans
- ✗ A. Glucosionates
- ✗ B. Calcium oxalates
- ✗ C. Allyl Disulphides
- ✓ D. Isothiocyanates

Q.28 Orchid species which grows on the rock are known as

Ans
- ✓ A. Lithophytes
- ✗ B. Terrestrial
- ✗ C. Epiphytes
- ✗ D. Saprophytes

Q.29 Panicum sumatrense is the scientific name of

Ans
- ✗ A. Barnyard millet
- ✗ B. Proso millet
- ✗ C. Kodo millet
- ✓ D. Little millet

Q.30 Sinigrin is present in oil cakes of

Ans
- ✗ A. Soyabean
- ✗ B. Groundnut
- ✓ C. Rapeseed-Mustard
- ✗ D. Sesamum

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Q.31 Flowering in sugarcane is called

Ans
- ✗ A. Tillering
- ✗ B. Sprouting
- ✗ C. Spike
- ✓ D. Arrowing

Q.32 Which of the following fruit plant is highly drought tolerant

Ans
- ✗ A. Grapes
- ✗ B. Mango
- ✗ C. Guava
- ✓ D. Pomegranates

Q.33 Pineapple is a

Ans
- ✓ A. CAM plant
- ✗ B. C2 plant
- ✗ C. Epiphytic
- ✗ D. C3 plant

Q.34 Which of the following is a miracle crop ?

Ans
- ✓ A. Soybean
- ✗ B. Cotton
- ✗ C. Maize
- ✗ D. Groundnut

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Q.35 Which one is a perennial dioecious cucucrbit

Ans
- ✗ A. Musk melon
- ✗ B. Snap melon
- ✓ C. Sweet gourd
- ✗ D. Tinda

Q.36 Arka Neelachal Kesri is a variety of

Ans
- ✗ A. Guava
- ✗ B. Grape
- ✗ C. Papaya
- ✓ D. Mango

Q.37 Salt tolerant variety of barley

Ans
- ✗ A. Neelum
- ✗ B. RD101
- ✓ C. Amber
- ✗ D. RD137

Q.38 Which vegetable is only grown in rabi season

Ans
- ✓ A. Garlic
- ✗ B. Capsicum
- ✗ C. Brinjal
- ✗ D. Tomato

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Q.39 Stubble shaving operation is generally practised in

Ans

✗ A. Jute

✗ B. Normal cane

✓ C. Ratoon cane

✗ D. Cotton

Q.40 The weed Striga lutea is associated with which crop

Ans

✓ A. Sugarcane

✗ B. Groundnut

✗ C. Wheat

✗ D. rice

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