FINAL ANSWER KEY

Question Paper Code: 79/2022/OL

	Category Code:	031/2022
	Exam:	Agricultural Officer (SR for SC/ST)
	Date of Test	28-09-2022
	Department	Agriculture Development and Farmers Welfare
	Alphacode	A
Question1:-The soil wate	r potential at field capacity is	3
A:1500kpa		
B:33kpa		
C:-0kpa		
D:-+33kpa		
Correct Answer:- Op	otion-B	
Question2:-The element	that is involved in the reduct	ion of nitrate to nitrite is
A:-Calcium		
B:-Nitrogen		
C:-Molybdenum		
D:-Boron		
Correct Answer:- Op	otion-C	
Question3:-Hypogeal mo	de of germination is seen in	
A:-Green gram		
B:-Red gram		
C:-Horse gram		
D:-Black gram		
Correct Answer:- Op	otion-B	
Question4:-Zinc deficien	cy in rice is known as	
A:-Bakanae disease		
B:-Tungro disease		
C:-Blast disease		
D:-Khaira disease		
Correct Answer:- Op	otion-D	
Question5:-Fimbristylis n	niliacea is a weed o	f rice.
A:-grass		
B:-sedge		
C:-broad leaved		
D:-fern		
Correct Answer:- Op	otion-B	
Question6:-The irrigation	requirement (IR) of the crop	ped area is if; WR is the water requirement, EP is the effective precipitation and S is the soil profile moisture.
A:-IR=WR-(EP+S)		
B:-IR=WR+(EP+S)		
C:-IR=WR+(EP-S)		
D:-IR=WR+EP		
Correct Answer:- Op	otion-A	
Question7:-Pegging is as	sociated with which of the fo	llowing crop?
A:-Green gram		
B:-Black gram		
C:-Groundnut		
D:-Sugarcane		
Correct Answer:- Op	otion-C	

Question8:-The female parent of hybrid napier is	
A:-Bajra	
B:-Setaria grass	
C:-Sugarcane	
D:-Rice	
Correct Answer:- Option-A	
Question9:-An example for preemergent herbicide is	
A:-2, 4-D	
B:-fenoxaprop	
C:-paraquat	
D:-oxyflurofen	
Correct Answer:- Option-D	
Question10:-Calcium carbonate equivalency value is higher for	
A:-Wood ash	
B:-Quicklime	
C:-Dolomite	
D:-Hydrated lime	
Correct Answer:- Option-B	
Question11:-Statement 1: Stimulation occurs when a high level of a nutrient increases plant demand for another nutrient. Statement 2: Increased nitrogen application and uptake creates a demand for more magnesium.	
A:-Statement 1 is correct and Statement 2 is wrong	
B:-Both Statements are correct	
C:-Statement 2 is correct and Statement 1 is wrong	
D:-Both Statements are wrong	
Correct Answer:- Option-B	
Question12:-Statement 1: Many chemical and biological reactions occur at the colloid solid-liquid interfaces. Statement 2: Adsorption takes place at the interface.	
A:-Both Statements are correct	
B:-Statement 1 is correct and Statement 2 is wrong	
C:-Both Statements are wrong	
D:-Statement 2 is correct and Statement 1 is wrong	
Correct Answer:- Option-B	
Question13:-Statement 1: Carbohydrates are the third most abundant component of humus. Statement 2: The carbohydrate concentration has been estimated to 30% in soil humus.	
A:-Both Statements are correct	
B:-Statement 1 is correct and Statement 2 is wrong	
C:-Both Statements are wrong	
D:-Statement 2 is correct and Statement 1 is wrong	
Correct Answer:- Option-C	
Question14:-Statement 1: Urease is an example of an induced enzyme. Statement 2: Cellulase is an example of a constitutive enzyme.	
A:-Both Statements are correct	
B:-Statement 1 is correct and Statement 2 is wrong	
C:-Statement 2 is correct and Statement 1 is wrong	
D:-Both Statements are wrong	
Correct Answer:- Option-D	
Question15:-Assertion: Cation Exchange and base exchange both are different. Reason: The reaction involves H^+ions .	
A:-Assertion and Reason both are correct	
B:-Assertion is correct but reason is wrong	
C:-Reason is correct but assertion is wrong	
D:-Both assertion and reason are wrong	

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Question16:-Assertion A: Barium is strongly adsorbed by the clay but appears to have low penetrating power.
              It exchange is less than would be expected from the amount of Ba adsorbed.
Reason R:
    A:-Assertion and Reason both are correct and R is not the correct explanation of A.
    B:-Assertion and Reason both are correct and R is the correct explanation of A.
    C:-Reason is correct but assertion is wrong.
    D:-Both assertion and reason both are wrong
     Correct Answer:- Option-B
Question17:-Assertion A: Transition metals like Al, Fe, Mn, Cu and Zn and the organic compounds forms metal-organo complexes or chelates.
              Humic and fulvic acids are especially important in the formation of such complexes.
    A:-Assertion is correct but reason is correct and R is not the correct explanation of A.
     B:-Reason is correct but assertion is wrong.
     C:-Both assertion and reason both are wrong.
     D:-Assertion and reason both are correct and R is the correct explanation of A.
     Correct Answer:- Option-D
Question18:-Rank the following moisture regimes below from driest to wettest
    A:-Udic, aquic, aridic
    B:-Aquic, udic, aridic
     C:-Xeric, udic, aquic
    D:-Udic, Xeric aquic
     Correct Answer:- Option-C
Question19:-Immobilization of sulphur occur in soil when C:S ratio is
    A:-<300:1
     B:->300:1
    C:->400:1
    D:-<200:1
     Correct Answer:- Option-C
Question20:-Match the following:
   Dris
EPP
                                    Mehlich
                               a.
b.
                                    Beaufils
   1% Citric Acid
                                    Ramamoorthy
   Complimentary ion principle d. Dyer
    A:-I-b, II-d, III-a, IV-c
     B:-I-c, II-d, III-a, IV-b
     C:-I-b, II-d, III-c, IV-a
    D:-I-b, II-c, III-a, IV-d
     Correct Answer:- Option-A
Question21:-Recently invaded insect that threatened maize cultivation in India is
    A:-Spodoptera frugiferda
     B:-Spodoptera litura
    C:-Spodoptera exigua
    D:-Mythimna separata
     Correct Answer:- Option-A
Question22:-Calasobruchus chinensis is a pest on pulses in
    A:-Field
     B:-Storage
     C:-Both 1 and 2
    D:-None
     Correct Answer:- Option-C
Question23:-Recently discovered new insect order is
     A:-Mantophasmatodea
     B:-Grylloblattodea
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Correct Answer:- Option-A

C:-Zoraptera

D:-Archaeognatha
Correct Answer:- Option-A
Question24:-Who decoded the dance language of honey bees?
A:-Karl Van Frish
B:-Charles Darwin
C:-Nicolas Tinbergen
D:-Carl Linneus
Correct Answer:- Option-A
Question25:-LD 50 values for oral toxicity of less toxic green molecules of insecticides is
A:-01 to 50
B:-51 to 500
C:-501 to 5000
D:->5000
Correct Answer:- Option-D
Question26:-Anamorphic development is found in the order
A:-Diplura
B:-Protura
C:-Collembola
D:-Thysanura
Correct Answer:- Option-B
Question27:-Bunchy top appearance and red coloured leaf mines near the midribs of sugarcane leaves is damage due to
A:-Scripophaga incertulus
B:-Scirpophaga nivella
C:-Chilo infuscatellus
D:-Chilo sacchariphagus indicus
Correct Answer:- Option-D
Question28:-The Act it regulates imports, manufacture, storage, transport, sale, distribution and use of insecticides
A:-Fertilizer Act
B:-Essential Commodity Act
C:-Insecticide Act 1968
D:-Insecticide rules 1971
Correct Answer:- Option-C
Question29:-Juvenile Harmone is secreted by
A:-Carpora Allata
B:-Carpora Cardiaca
C:-Prothoracic Glands
D:-Neurosecretory Cells
Correct Answer:- Option-A
Question 30:- Downward curling and tapering of leaves in chilli crop is due to feeding of
A:-Tetranychus urticae
B:-Polyphagotarsonemus latus
C:-Aceria cajani
D:-Aceria guerreronis
Correct Answer:- Option-B
Question31:-Dissemination of urediospores is mainly through
A:-Water
B:-Wind
C:-Soil
D:-Insect
Correct Answer:- Option-B

A:-Obligate saprophyte
B:-Facultative parasite
C:-Facultative saprophyte
D:-Obligate parasite
Correct Answer:- Option-D
Question33:-Coconut cadang cadang disease is caused by
A:-Viroid
B:-Phytoplasma
C:-Spiroplasma
D:-RLO
Correct Answer:- Option-A
Question34: present in the debris in the soil serve as the primary inoculum for grape vine downy mildew pathogen.
A:-Zoospore
B:-Conidium
C:-Oospore
D:-Sporangium
Correct Answer:- Option-C
Question35:-According to Koshy (1999) root wilt disease of coconut is of national importance as the disease causes an annual loss of million coconuts in Kerala
A:-968
B:-950
C:-970
D:-956
Correct Answer:- Option-A
Question36:-The foul smell caused by a volatile compound is a good indication of wheat hill bunt infection in the field.
A:-Triethylamine
B:-Tributylamine
C:-Trimethylamine
D:-Tricarboxylamine
Correct Answer:- Option-C
Question37:-Growing cotton with sorghum or Phaseolus aconitifolius as intercrop reduced disease.
A:-Black arm
B:-Wilt
C:-Grey mildew
D:-Root rot
Correct Answer:- Option-D
Question38: is a most important vector of the Pantoea Stewartii (Stewart's wilt of corn)
A:-Pentalonia
B:-Chaetocnema pulicaria
C:-Bemisia tabaci
D:-Aphis gossypii
Correct Answer:- Option-B
Question39:-Empty root of cassava is caused by
A:-Phloem-restricted trypanosomatid
B:-Xylem-restricted trypanosomatid
C:-Laticifer-restricted trypanosomatid
D:-Fruit and seed infecting trypanosomatid
Correct Answer:- Option-C
Question40:-The rice blast pathogen produces toxin.
A:-α- picolinic acid

Question32:-Albugo candida is an

	B:-Zearalenone
	C:-Victorin
	D:-Trichothecin
	Correct Answer:- Option-A
Que	stion41:-Complete dominance in the traits governed by two genes would result in phenotypic ratio of
	A:-15:1
	B:-9:3:3:1
	C:-9:7
	D:-9:6:1
	Correct Answer:- Option-B
Que	stion42:-Frame shift mutation is caused by which of the following mutagens?
	A:-Alkalyting agents
	B:-Acridine dyes
	C:-Base analogues
	D:-Both 2 and 3
	Correct Answer:- Option-B
(i) (ii) (iii)	stion43:-In polygenic inheritance, which of the following statements are correct? Equal effect can be produced by the genes involved in the expression of a character Epistasis and linkage is observed It possesses lack of dominance Each allele in the genes have additive effect
	A:-i and ii
	B:-Only ii
	C:-i, ii and iv
	D:-i, iii and iv
	Correct Answer:- Option-D
Que	stion44:-The criteria for the population to be in Hardy-Weinberg equilibrium
	A:-Random mating
	B:-Small population
	C:-Selection and Mutation
	D:-Genetic drift
	Correct Answer:- Option-A
Que	stion45:-Distant hybridization refers to
	A:-Crossing between two species
	B:-Crossing between two genus
	C:-Crossing between two varieties
	D:-Both 1 and 2
	Correct Answer:- Option-D
Que	stion46:-The mechanism of non preference mode of resistance to insects exhibited by the host plant is called as
	A:-Anti xenosis
	B:-Anti biosis
	C:-Tolerance
	D:-Avoidance
	Correct Answer:- Option-A
Que	stion47:-The genetic male sterility system of hybrid seed production is popularly adopted in which of the following crop?
	A:-Rice
	B:-Maize
	C:-Pigeon Pea
	D:-Pearl Millet
	Correct Answer:- Option-C
Que	stion48:-Which of the following in-vitro method adopted for the production of secondary metabolites?
	A:-Callus culture

	B:-Meristem culture
	C:-Cell suspension culture
	D:-All
	Correct Answer:- Option-C
Que	stion49:-The major criteria by which the synthetics and composites differs is
	A:-testing for combining ability
	B:-wider adaptation
	C:-cross pollination
	D:-heterozygous population
	Correct Answer:- Option-A
Que	stion50:-A name or sign used on certain products or which corresponds to a specific location or origin
	A:-Patent
	B:-Trade mark
	C:-Geographical Indication
	D:-Trade name
	Correct Answer:- Option-C
Que	stion51:-The Section 8 of the Indian Seed Act 1966 is deals with
	A:-Power of Seed Inspector
	B:-Seed Analyst
	C:-Seed Certification Agency
	D:-Central Seed Laboratory
	Correct Answer:- Option-C
Que	stion52:-Which of the following seed extraction method is best for control of bacterial canker disease in the tomato?
	A:-Acid method
	B:-Fermentation method
	C:-Alkali method
	D:-Mechanical method
	Correct Answer:- Option-B
(i) (ii)	stion53:-Which of the following Statement is/are correct about ground nut seed production operations? Gypsum application increases peg penetration and pod formation Self-pollinated crop and stigma remains enclosed in the keel petal Darken plumel is noticed due to calcium deficiency
	A:-Only (i)
	B:-Both (i and ii)
	C:-Only (ii and iii)
	D:-All of the above (i, ii and iii)
	Correct Answer:- Option-D
Que	stion54:-The Andromonoecious flower in cucurbits means
	A:-Staminate and Pistillate flowers are produced separately in the same plant
	B:-Staminate and Hermaphrodite flowers produced separately in the same plant
	C:-Staminate, Pistillate and Hermaphrodite flowers are produced in the same plant
	D:-Pistillate and Hermaphrodite flowers are produced in the same plant
	Correct Answer:- Option-B
Que	stion55:-According to Indian Minimum Seed Certification Standards, the minimum germination percentage should be maintained for bhendi seed certification
	A:-90%
	B:-80%
	C:-65%
	D:-75%
	Correct Answer:- Option-C
Que	stion56:-Which of the following Statement is wrong about Seed Bill 2004?

A:-Any type of seed which is for sale has to be registered with Registration Sub Committee

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C:-All registered seed has to meet the minimum standards for germination, purity and permitted proportion of diseased seeds
     D:-Every seed producer and dealer and horticultural nursery has to be registered with State Govt.
Question57:-The seed lot A of 400 kg seeds with 70% germination and lot B seeds with 85% germination. How much of lot B seeds must be blended with lot A to get seed lot with
germination of 80%?
     A:-800 kg
     B:-1000 kg
     C:-500 kg
     D:-2000 kg
     Correct Answer:- Option-A
Question58:-The leaves and pods of the following seed growing crop is coated with thin film of Malic acid and Oxalic acid
     A:-Viana mungo
     B:-Cicer arietinum
     C:-Vigna ungiculata
     D:-Caianus caian
     Correct Answer:- Option-B
Question59:-Match the list I with list II:
List I
                                                 List II
    Aerial seeding
Hydro seeding
                                Slurry comprising seed mulch and fertilizer 
Impregnation of seeds with bioactive chemicals
iii. Fluid drilling
iv. Seed infusion
                                Pre germinated seed suspension in viscous gel
Broadcasting pre imbibed seeds from air craft
                           3.
     A:-i-3, ii-1, iii-2, iv-4
     B:-i-4, ii-2, iii-1, iv-3
     C:-i-2, ii-1, iii-3, iv-4
     D:-i-4, ii-1, iii-3, iv-2
     Correct Answer:- Option-D
Question60:-In brinjal cultivars maximum seed set can be obtained in
    Short style flowers
Medium style flowers
iii. Long style flowers
iv. Pseudo style flowers
Choose the correct answer
     A:-Only i
     B:-Both (ii and iii)
     C:-Only iii
     D:-All of the above (i, ii, iii and iv)
     Correct Answer:- Option-B
Ouestion61:-National Research Centre on citrus is located at
     A:-Gwalior
     B:-Nagpur
     C:-Thane
     D:-Mumbai
     Correct Answer:- Option-B
Question62:-Parentage of Amrapali
     A:-Neelum x Dashehari
     B:-Dashehari x Neelum
     C:-Neelum x Alphonso
     D:-Ratna x Alphonso
     Correct Answer:- Option-B
Question63:-A seedless mandarin variety suitable for segment canning
     A:-M4
     B:-N4
     C:-K4
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B:-Seed Bill, 2004 is replaced the earlier Seed Control Order, 1983

D:-L4
Correct Answer:- Option-B
Question64:-A plant growth hormone applied for reducing mango malformation
A:-NAA 200ppm
B:-NAA 400ppm
C:-NAA 100ppm
D:-NAA 1000ppm
Correct Answer:- Option-A
Question65:-Most important fruit crop of Kerala
A:-Cashew Nut
B:-Mango
C:-Banana
D:-Jackfruit
Correct Answer:- Option-C
Question66:-Commercial method of propagation in mango
A:-Epicotyl grafting
B:-Budding
C:-Air layering
D:-Stooling
Correct Answer:- Option-A
Question67:-Commercial method of propagation in guava
A:-Cutting
B:-Air layering
C:-Budding
D:-Grafting
Correct Answer:- Option-B
Question68:-Most popular training system adopted in grapes
A:-Head system
B:-Bower system
C:-Kniffin system
D:-Telephone system
Correct Answer:- Option-B
Question69:-Hen and chicken is due to the deficiency of
A:-Manganese
B:-Zinc
C:-Boron
D:-Magnesium
Correct Answer:- Option-C
Question70:-Artocarpus Heterophyllus is native to
A:-India
B:-Africa
C:-Pakistan
D:-Malaysia
Correct Answer:- Option-A
Question71:-Queen of fruits
A:-Mango
B:-Avocado
C:-Apple
D:-Mangosteen
Correct Answer:- Option-D

Question72:-Edible part in pomegranate
A:-Seed
B:-Ovary
C:-Thalamus
D:-Aril
Correct Answer:- Option-D
Question73:-Vitamin C content in Amla/Aonla (mg/100g)
A:-5000
B:-1000
C:-500
D:-100
Correct Answer:- Option-C
Question74:-Cox's Oragne is variety of
A:-Mandarine orange
B:-Sweet orange
C:-Pummello
D:-Apple
Correct Answer:- Option-A
Question75:-Cold treatment applied to apple seeds for germination is known
A:-Chilling
B:-Scarification
C:-Stratification
D:-All of the above
Correct Answer:- Option-C
Question76:-Anti-nutrient present in the Brassica group of vegetables
A:-Glucosides
B:-Thio glucosides
C:-Allayil Thiocyanate
D:-Both 1 and 2
Correct Answer:- Option-B
Question77:-Most ancient type of vegetable garden
A:-Kitchen garden
B:-Market garden
C:-Truck garden
D:-Both 1 and 2
Correct Answer:- Option-A
Question78:-Photosensitive variety of cowpea
A:-Lola
B:-Bhagyalekshmi
C:-Anaswara
D:-Kanakamony
Correct Answer:- Option-D
Question79:-Blossom end rot in tomato fruit is associated with the deficiency of
A:-Boron
B:-Sulphur
C:-Calcium
D:-Magnesium
Correct Answer:- Option-C
Question80:-Best season for cultivation of all vegetables in Kerala
A:-September to March

	B:-June to September
	C:-January to May
	D:-All of the above
	Correct Answer:- Option-A
Que	stion81:-The downward sloping demand curve is based on which of the following law?
	A:-Law of supply
	B:-Law of equi-marginal utility
	C:-Law of diminishing marginal utility
	D:-Law of diminishing marginal product
	Correct Answer:- Option-C
(i) (ii) (iii)	estion82:-Which of the following statement is/are correct about the Minimum Support Price? It is recommended by the Commission for Agricultural Costs and Prices and announced by the Government of India. It is recommended and announced by the Commission for Agricultural Costs and Prices. It is announced before the sowing season. It is recommended by the Government of India and announced by the Commission for Agricultural Costs and Prices.
	A:-Only (i)
	B:-(i) and (iii)
	C:-(ii) and (iii)
	D:-(iii) and (iv)
	Correct Answer:- Option-B
Que	estion83:-In which type of market segmentation, the buyers are divided into different groups on the basis of personality traits, lifestyle or values?
	A:-Demographic segmentation
	B:-Geographic segmentation
	C:-Psychographic segmentation
	D:-Behavioural segmentation
	Correct Answer:- Option-C
Que	stion84:-Which of the following is a facilitative function in marketing?
	A:-Storage
	B:-Standardisation
	C:-Processing
	D:-Selling
	Correct Answer:- Option-B
(i) (ii)	stion85:-Which of the following statement/statements about the relationship between marketed surplus and marketable surplus is/are correct? Marketed surplus is greater than marketable surplus. Marketed surplus is less than marketable surplus. Marketed surplus is equal to marketable surplus.
	A:-Only (ii)
	B:-(ii) and (iii)
	C:-(i) and (ii)
	D:-(i), (ii) and (iii)
	Correct Answer:- Option-D
Que	stion86:-The minimum of the average variable cost is known as the
	A:-Break-even point
	B:-Equilibrium point
	C:-Inflection point
	D:-Shut down point
	Correct Answer:- Option-D
Que	stion87:-Which one of the following market structures has product differentiation as the most important characteristic feature?
	A:-Perfect competition
	B:-Oligopoly
	C:-Monopoly
	D:-Monopolistic competition
	Correct Answer:- Option-D

Question88:-An increase in price of a commodity, holding everything else constant, results in,	
A:-An increase in demand	
B:-A decrease in demand	
C:-A contraction of demand	
D:-An extension of demand	
Correct Answer:- Option-C	
Question89:-The pricing strategy in which the initial prices are kept high and are slowly lowered over time to extract maximum profits from customers who are less price sensitive called as	e is
A:-Market skimming pricing	
B:-Market penetration pricing	
C:-Markup pricing	
D:-Target return pricing	
Correct Answer:- Option-A	
Question90:-The demand for agricultural inputs like fertilizers or pesticides is known as	
A:-Autonomous demand	
B:-Derived demand	
C:-Cross demand	
D:-Intermediate demand	
Correct Answer:- Option-B	
Question91:-Which of the following is not a step of Extension programme planning?	
A:-Planned Programme	
B:-Plan of work	
C:-Goal fixation	
D:-Evaluation of accomplishments	
Correct Answer:- Option-C	
Question92:-Function of Extension management includes which of the following?	
A:-Good Vision	
B:-Good Organizing	
C:-Good Supervision	
D:-Good Motivation	
Correct Answer:- Option-B	
Question93:-Need for introducing High Yielding Variety Programme (HYVP) was felt due to limitation of which programme?	
A:-Institute village Linkage programme (IVLP)	
B:-Watershed Development Programme	
C:-National Agricultural Technolog programme (NATP)	
D:-Intensive Agricultural District Programme (IADP)	
Correct Answer:- Option-D	
Question94:-Which is the major dissimilarity between Community Development Programme and Extension Education?	
A:-Social and economic development	
B:-Individual approach	
C:-Bringing about change	
D:-Extend knowledge to rural people	
Correct Answer:- Option-B	
Question95:-In Extension Programme planning 'Establishment of relationship' is focused on which function?	
A:-Organising	
B:-Staffing	
C:-Coordinating	
D:-Controlling	
Correct Answer:- Option-A	
Question96:-Evaluation carried out by the agency responsible for the planning and implementation of the programme is known as	

A:-Self evaluation
B:-External evaluation
C:-Internal evaluation
D:-Institutional evaluation
Correct Answer:- Option-C
Question97:-Conflict between groups due to psychological differences is known as
A:-Class conflict
B:-International conflict
C:-Caste conflict
D:-Racial conflict
Correct Answer:- Option-D
Question98:-'Method demonstration' is which method of communication?
A:-Individual communication
B:-Mass communication
C:-Group communication
D:-Farm communication
Correct Answer:- Option-C
Question99:-Faithful performance of all the element of communication is called?
A:-Communication competency
B:-Fidelity
C:-Empathy
D:-Feedback in communication
Correct Answer:- Option-B
Question100:-Which type of entrepreneurs prefer to continue in the same venture by transforming themselves to fit the changing demands?
A:-Managerial entrepreneur
B:-Innovative entrepreneur
C:-Mobile entrepreneur
D:-Empire builders
Correct Answer:- Option-A