Question Booklet No.:		•		AD	0	H	12	05	21
Y	Register		_						
	Number								

# 2021 HORTICULTURE (P.G. Degree Standard)

**Duration: Three Hours**]

[Total Marks: 300

Read the following instructions carefully before you begin to answer the questions.

#### IMPORTANT INSTRUCTIONS

- 1. You will be supplied with this question booklet 15 minutes prior to the commencement of the examination.
- 2. This question booklet contains 200 questions. Before answering the questions, you are requested to check whether all the questions are printed serially and ensure that there are no blank pages in the question booklet. If any defect is noticed in the question booklet, it shall be reported to the invigilator within the first 10 minutes and get it replaced with a complete question booklet. If the defect is reported after the commencement of the examination, it will not be replaced.
- 3. Answer all the questions. All the questions carry equal marks.
- 4. You must write your register number in the space provided on the top right side of this page. Do not write anything else on the question booklet.
- 5. An answer sheet will be supplied to you separately by the room invigilator to shade the answers.

  Instructions regarding filling of answers etc., which are to be followed mandatorily, are provided in the answer sheet and in the memorandum of admission (Hall Ticket).
- 6. You shall write and shade your question booklet number in the space provided on page one of the answer sheet with BLACK INK BALL POINT PEN. If you do not shade correctly or fail to shade the question booklet number, your answer sheet will be invalidated.
- 7. Each question comprises of five responses (answers): i.e. (A), (B), (C), (D) and (E). You have to select ONLY ONE correct answer from (A) or (B) or (C) or (D) and shade the same in your answer sheet. If you feel that there are more than one correct answer, shade the one which you consider the best. If you do not know the answer, you have to mandatorily shade (E). In any case, choose ONLY ONE answer for each question. If you shade more than one answer for a question, it will be treated as a wrong answer even if one of the given answers happens to be correct.
- 8. You should not remove or tear off any sheet from this question booklet. You are not allowed to take this question booklet and the answer sheet out of the examination room during the time of the examination.

  After the examination, you must hand over your answer sheet to the invigilator. You are allowed to take the question booklet with you only after the examination is over.
- 9. You should not make any marking in the question booklet except in the sheets before the last page of the question booklet, which can be used for rough work. This should be strictly adhered to.
- 10. Failure to comply with any of the above instructions will render you liable for such action as the Commission may decide at their discretion.

## SPACE FOR ROUGH WORK

70001941

1.	Isabgol variety released from CIMAP, Lucknow is			
		Niharika	(B)	Jawahar Isabgol-4
	(C)	HI-5	(D)	GI-2
	(E)	Answer not known		
2.	The v	rariety 'Cin-Kanchan' belongs to		
	1	Ocimum sanctum	(B)	Oamum basclicum
	(C)	Ocimum canum	(D)	Ocimum americanum
	(E)	Answer not known		
3.	Andro	ographis Paniculata belongs to the fa	amily	
	(A)	Vitaceae	(B)	Rutaceae
	4	Acanthaceae	(D)	Labiatae
	(E)	Answer not known		
4.	Who	was Director of DMAP, during 2013?		
	(A)	Dr. Jai Gopal	05	Dr. Satyabrata Maiti
	(C)	Dr. Saroj, P.L.	(D)	Dr. R.K. Pal
	(E)	Answer not known		
5.	What	is the role of "global gap" in medicin	al pl	ant production?
	4	Certification	(B)	Technical Advisory Service
	(C)	Imports produce	(D)	Provides farm inputs
	(E)	Answer not known		

6.	Albin	ism is a physiological disorder in th	ne crop	p
	W	Strawberry	(B)	Apple
	(C)	Watermelon	(D)	Capsicum
	(E)	Answer not known		
7.	How	are flavor volatiles in tomatoes der	ived	
	(A)	Catabolism of starch		
	(B)	Catabolism of amino acids		
	(C)	Catabolism of fatty acids		
	of	Catabolism of fatty acids and ami	no aci	ds
	(E)	Answer not known		
8.		ige of seeds/vegetative organs at an 96°C is known as	ultra	low temperature (ie) in liquid nitroge
	(A)	Ultra preservation	(B)	Subnormal preservation
	4	Cryo preservation	(D)	Ice preservation
	(E)	Answer not known		
9.	Degr	eening is the process of decompo		green pigments in fruits by applyin
	(A)	Chlorin	(B)	Nitrogen
	0	Ethylene	(D)	Oxygen
	(E)	Answer not known		
10.	The	lower bud dormancy in coffee is du	e	factors.
	(A)	Due to unfavourable temperature		
	0	Due to the presence of inhibitors	in bud	
	(C)	Due to shade effect		
	(D)	Due to high C:N ratio		
	(E)	Answer not known		

Defa	ult unit of CAD is in		
(A)	Foot	(B)	Centimeter
4	Inches	(D)	Milimeter
(E)	Answer not known		
Synt	hetic lawn is known as		
1	Astro Turf	(B)	Mulch
(C)	Blue Turf	(D)	Arches
(E)	Answer not known		
What	t is the optimum temperature	range requi	ired for indoor plants?
1	21 – 32° C	(B)	10 – 12° C
(C)	10 – 14° C	(D)	5 – 10° C
(E)	Answer not known		
Whic	h of the following is not the ba	asic line of I	kebana?
(A)	Man	(B)	Earth
(C)	Heaven	D	Filler
(E)	Answer not known		
To pr	covide a complementory colou	r effect in a	pergola, pick the correct combination
	(A) (E) Synt (C) (E) What (A) (C) (E) (A) (C) (E)	(E) Answer not known  Synthetic lawn is known as  Astro Turf (C) Blue Turf (E) Answer not known  What is the optimum temperature  21 - 32° C (C) 10 - 14° C (E) Answer not known  Which of the following is not the beautiful temperature (A) Man (C) Heaven (E) Answer not known	(A) Foot (B) (C) Inches (D) (E) Answer not known  Synthetic lawn is known as (A) Astro Turf (B) (C) Blue Turf (D) (E) Answer not known  What is the optimum temperature range required as the optimum temperature range required as the continuous process of the continuous process o

- 15. To provide a complementory colour effect in a pergola, pick the correct combination of ornamental climber,
  - 1. Beaumontia grandiflora and Hiptage madablota
  - 2. <u>Lonicera Japonica</u> and <u>Jacquemontia pentantha</u>
  - 3. Tristellateia australis and Combretum Comosum
  - 4. Thunbergia fragrans and Vallaris hyenei
  - (A) 1

(B) 2

3

(D) 4

(E) Answer not known

- - (1) 10 25%
  - (B) 25 50%
  - (C) 40 55%
  - (D) 50 60%
  - (E) Answer not known
- 17. Fruits Product Order (FPO) is effected in the year
  - (A) 1954

(3) 1955

(C) 1965

(D) 1968

- (E) Answer not known
- 18. The Indian Spices board is located in
  - (A) Cochin, Kerala

(B) Trichy, T.N

(C) Pune, Maharastra

(D) Hyderabad, Telungana

- (E) Answer not known
- 19. Organic sources of Potassium are
  - (A) Phosphobacteria

Sea weed

(C) Sulphate of Potash

(D) Azospirillum

(E) Answer not known

20.		developed the progeny	test and used successful	ly in improvement of				
	Suga	developed the progeny test and used successfully in improvement of Sugarbeets.						
	(A)	Mendel (1900)						
	(B)	Knight (1759-1835)						
	(C)	Johannsen (1903)						
	4	Vilmorin (1856)						
	(E)	Answer not known						
	C)							
21.		ose the correct statement		7.11.				
	(A)	The variation within a purelin						
	(B)	The variation within a pureline is genetic and non heritable						
	(C)	The variation within a pureline is genetic and heritable						
		The variation within a purelin	e is environmental and not	n-heritable				
	(E)	Answer not known						
22.		oulk method of breeding, the sin	gle plant selection is carr	ried out in				
	(A)	$\mathbf{F_1}$	(B) F <sub>2</sub>					
	(C)	$F_3$	F <sub>6</sub>					
	(E)	Answer not known						
23.	Resi	istance source of Tobacco Mosaic	Virus (TM-1) in Tomato					
	4	Solanum hirsutom						
	(B)	Solanum pimpinellisolium						
	(C)	Solanum chilence						
	(D)	Solanum pennellic						
	(E)	Answer not known						

	(A)	55 cm girth at a height of 50 cm fro	om th	e ground		
4	1	50 cm girth at a height of 125 - 15	0 cm	from the ground		
1	(C) 40 cm girth at a height of 50 cm from the ground (D) 70 cm girth at a height of 50 cm from the ground					
•						
	(E)	Answer not known				
*:						
25.	The c	hemical which is used for removal	of mu	acilage in coffee pulp for preparation of		
	parch	ment coffee				
	S	Sodium hydroxide	(B)	Hydro chloric acid		
	(C)	Nitric acid	(D)	Sulphuric acid		
	(E)	Answer not known	,			
26.	Selec	tive picking of ripe berries in coffee	s ter	med as		
	4	Fly picking	(B)	Main picking		
	(C)	Stripping	(D)	Clean picking		
	(E)	Answer not known				
27	Hisar	Sawrup is the variety of	- crop			
	(A)	Cumin	(B)	Fenugreek		
	40	Fennel	(D)	Coriander		
	(E)	Answer not known				

The tappable stage of rubber when raised through budded plants

24.

28. Choose the incorrect statement

Fruits and Vegetables

- (A) Supply minerals and vitamins
- (B) Contain variety of polyphenols
- (C) Serve as good laxatives
- The bioavailability is poor when compared to other source
- (E) Answer not known
- 29. The term Horticulture first appeared in written language in the
  - (A) 16th Century
  - (B) 15th Century
  - 17th Century
  - (D) 13th Century
  - (E) Answer not known
- 30. Aromatic plants are defined as
  - Those plants, the parts of which yield essential oil on steam distillation or solvant extrading
  - (B) These plants, the products of which are made use of food adjuncts.
  - (C) The plants yielding glycosides, alkaloids and steroid principles, which are having curative properties.
  - (D) These crops, which are grown in large contiguous area on extensive scale
  - (E) Answer not known

31.	'Gold	Finger' banana variety developed by	FH	A belongs to which subgroup			
	(A)	Cavendish subgroup	(B)	Mysore subgroup			
	(0)	Pome subgroup	(D)	Silk subgroup			
	(E)	Answer not known					
32.	The c	arambola variety is					
	4	Golden star	(B)	Sharbati			
	(C)	Singree	(D)	Surkha			
	(E)	Answer not known					
33.	Choos	se the gynodioecious papaya variety	amo	ng the following			
	(A)	Co-5	(B)	Co-6			
	9	Co-7	(D)	Co-8			
	(E)	Answer not known					
34.	Hartl	ey Walnut cultivar is selection from					
	(A)	Chile	(B)	French			
	4	California	(D)	Mexico			
	(E)	Answer not known					
35.	"Phyl	loxera" resistant root-stocks of grap	es is				
	W.	Riparia ceorie	(B)	Salt creek			
	(C)	Solanis 1616	(D)	Dogridge			
	(E)	Answer not known					
36.	Which state is called as Apple Bowl of India?						
	(A)	Punjab	N.	Himachal Pradesh			
	(C)	Jammu and Kashmir	(D)	Uttar Pradesh			
	(E)	Answer not known					

37.	Lem	on grass variety resistant to frost	*	
	(A)	Nima	(8)	Chirharit
	(C)	GRL-1	(D)	CKP-25
	(E)	Answer not known		
38.	Guja	rat Isabgol (GI-2) is derived by		
	(A)	Selection	(6)	Mutation
	(C)	Hybridization	(D)	Introduction
	(E)	Answer not known		
				•
39.	In op	ium poppy, the variety "Trishina"	was rel	leased from
	4	NBPGR, New Delhi	(B)	CIMAP, Lucknow
	(C)	JNKVV, Mandsaur	(D)	AICRP, Faizabad
	(E)	Answer not known		
40.	The H	Palmarosa grass variety released fi	om the	cIMAP, Lucknow
	4	Tripta	(B)	Kalam
	(C)	CKP-25	(D)	BIO-23
	(E)	Answer not known		
41.	Ident	ify the crop which "Rothschildiana	" specie	es is present
	(A)	Psyllium	(B)	Oppium
	(C)	Kalmegh	9	Glory lily
	(E)	Answer not known		

42.	Choo	se the correct statement:
	(A)	The development of embryo from integment cells without fertilization called non recurrent apomixis
	4	The development of embryo directly from the haploid egg cell called non-recurrent apomixis.
	(C)	The development of embryo from the cells of funiculus called non-recurrent apomixis.
	(D)	The development of embryo from pollen tubecells called non-recurrent apomixis.
	(E)	Answer not known
43.	A pro	ocess of development of diploid embryos without fertilization is
	(A)	Allomixis (B) Autogamy
	(0)	Apomixis (D) Allogamy
	(E)	Answer not known
	In air	trus, the process of degreening must takes place under and
44.		lition
	(A)	High RH (90-95%) and air tight
	4	High RH (90-95%) and good air exchange
	(C)	Low RH (<90%) and Air tight
	(D)	Low RH (<90%) and good air flow
	(E)	Answer not known
45.	Tho	fruit which ponderously low is hydrolytic activity is
40.	(A)	Banana (B) Jack
	(C)	Mango Oranges
14 12 - 17 14 - 17	(E)	Answer not known
10	Cuan	a family are arready to for 10 h to 2 days at 20 20°C to induce
46.		e fruit are exposed to for 12 h to 3 days at 20-29°C to induce fuction of chlorophyll in the peel
	4	$1-5 \mu 1/1$ ethylene (B) $6-10 \mu 1/1$ ethylene
	(C)	11-15 $\mu$ 1/1 ethylene (D) 16-20 $\mu$ 1/1 ethylene
	(E)	Answer not known

47.	Brin	ijal, based on flower style, they are d	ļivide	ed into how many types?				
	(A)	Six	(5)	Four				
	(C)	Two	(D)	Seven				
	(E)	Answer not known						
48.	Choo	ose the correct statement						
		In knol khol, purple varieties often	n bolt	more rapidly than white varieties				
	(B)	White varieties often bolt more ra	pidly	than purple varieties				
	(C)	) Both varieties are not prone to bolting						
	(D)	Both varieties are often shows bol	ting					
	(E)	Answer not known						
49.			as ma	ade available for commercial cultivation				
	only	in the year						
	(A)	1970	(B)	1971				
	(C)	1972	S	1973				
	(E)	Answer not known						
50.		ordica cochinchinensis is commonly o	alled	las				
	(A)	kartoli	(B)	bitter gourd				
	0	sweet gourd	(D)	musk melon				
	(E)	Answer not known						
51.	Centr	ral Potato Research Institute, Simla	was e	stablished during the year				
	(A)	1945	(B)	1947				
	(0)	1949	(D)	1950				
	(E)	Answer not known						

52.	The most common chemical solution used during washing of fruits and vegetable central microbial infection						
	(A)	Hydrochloride	(6)	Hypochlorite			
	(C)	Hypochloride	(D)	Hydrochlorite			
	(E)	Answer not known					
53.	Dete	rmination of maturity indices of hor	ticult	ural crops by physiological method is			
	(A)	Physiological loss in weight	(B)	Titration acidity			
	4	Ethylene evolution rate	(D)	Flesh firmness			
	(E)	Answer not known					
54.	The	maturity indices for harvesting wate	r mel	lon is			
	(A)	Dull green colour, less than 10% T	SS ar	nd dull sound when tapped			
	(B)	Full green colour, more than 10%	TSS a	and dull sound when tapped			
	(C)	Dull red colour, less than 10% TSS	and	dull sound when tapped			
	1	Red colour flesh, 10% or more TSS	and	dull sound when tapped			
	(E)	Answer not known					
55.	The l	heat requirement of most of grape va	arietie	es for proper maturity is			
	(A)	2,500 to 3,000 units	(B)	3,000 to 3,250 units			
	(C)	2,000 to 2,500 units	<b>B</b> )	2,900 to 3,600 units			
	(E)	Answer not known					
56.	The	fruit that is classified under non-clin	nactri	ic pattern			
	W	Grapes -	(B)	Mango			
	(C)	Banana	(D)	Papaya			
	(E)	Answer not known					

to

57.	Pura	Ruby developed by crossing of the _		parents			
	(A)	Improved Meeruthi × Red Cloud					
	P	Sioux × Improved Meeruthi					
	(C)	$Improved\ Meeruthi\times Sioux$					
	(D)	$Red\ Cloud \times Improved\ Meeruthi$					
	(E)	Answer not known					
58.	Spon	taneous mutations occur at a rate of					
	(A)	10 <sup>-1</sup> to 10 <sup>-2</sup>	(B)	10-3 to 10-4			
	10)	10 <sup>-5</sup> to 10 <sup>-6</sup>	(D)	10 <sup>-7</sup> to 10 <sup>-8</sup>			
	(E)	Answer not known					
59.	Thor	resistant source of YVMV in Bhendi	ic				
00.	(A) Abelmoschus esculentus						
	(A)	Abelmoschus manihotyar tetraphy	llue				
	(C)	Abelmoschus moschatus	<u>IIus</u>				
	(D)	Abelmoschus ficulneus					
	(E)	Answer not known					
	(12)	Imswer not known					
60.	The s	species producing monoecious flower	s is				
	(A)	Trichosauthes raponiea	9	Trichosauthes anguina			
	(C)	Trichosanthes palmata	(D)	Trichosanthes cucumeroides			
	(E)	Answer not known					
61.	Singl	e Seed Descent (SSD) was originally	sugg	gested by			
	(A)	Cockerham and Matzinger (1985)					
	of	Goulden, 1939					
	(C)	Jinks and Pooni, 1976					
	(D)	Boerma and Cooper, 1975					
	(E)	Answer not known					

62.	-	—— is stage of cardamom capsule	sare	harvested for making pickles.
	(A)	Bud stage	T	Tender stage
	(C)	Brown seed stage	(D)	Dark seed stage
	(E)	Answer not known		
63.	In cas	shew, the best quality and export gr	ade s	hould be of
	(A)	430 count	(B)	320 count
	9	210 count	(D)	240 count
	(E)	Answer not known		
64.	The fi	nest quality grade in cinnamon is		
	(A)	0	(B)	000
	(C)	0000	\$	00000
	(E)	Answer not known		
65.	The h	ydroxy citric acid and Anthocyanin	s are	extracted commercially from
	(A)	Nutmeg	(B)	Clove
,	(C)	Cinnamon	6)	Garcinia
	(E)	Answer not known		
66.	Quills	s can be obtained from	/	
	(A)	Nutmeg	(B)	Cinnamon
	(C)	Clove	(D)	Curry leaf
	(E)	Answer not known		

67.	Pern	nanent grass is used as mulch withou	t no	fillage is called as
	(A)	Sod mulch	O	Sod
	(C)	Clean culture	(D)	Cover Cropping
	(E)	Answer not known	(-)	oo,or cropping
68.		lime planted with a spacing of $5 \times 5$ n ants/ ha is	n in l	Hexagonal planting system the number
	(A)	400	900	461
	(C)	537	(D)	248
	(E)	Answer not known		
69.	In ap	ple, UltraHDP system accommodates	3	plants/ha.
	(A)	<250	(B)	250 – 500
	(C)	500 – 1250	98	>1250
	(E)	Answer not known		
70.	The r	new Growth of flush and flowers occur	rs in	fruit crops during
	(A)	Winter	9	Spring
	(C)	Summer	(D)	Autumn
	(E)	Answer not known		
			•	
71.	The p	octential evapotranspiration rate in a	rid a	and semiarid zone is
	(A)	8 mm/day	(B)	3 mm/day
	(C)	4 mm/day	D	6 mm/day

(E)

Answer not known

72.		number of plants that can be accommodated in acre by hexagonal system for normally planted at $5~\text{m}\times 5~\text{m}$ spacing is			
	(A)	125	0	184	
	(C)	204	(D)	320	
	(E)	Answer not known			
<b>5</b> 0	XX71 :		C	- 11 day authorical conditions	
73.	Whic			ns well under subtropical conditions.	
		Loquat	C Marian	Apple	
	(C)	Peach	(D)	Plum	
	(E)	Answer not known			
74.		s Mulch or sod culture reduce the soi ango ripe fruits.	l ten	perature and incidence of	
	W	Sponsy tissue	(B)	Root rot	
	(C)	Golden nematode	(D)	Stem bores	
	(E)	Answer not known			
75.	Arka	Sahan is a progeny of			
	(A)	$Washington \times Cherimola$	(B)	Balanager × APK-1	
	(C)	$Mammoth \times Balanagar$	45	Island Gem × Mammoth	
	(E)	Answer not known			
76.	Amor		he sh	nelling percentage is high compared t	
	(A)	California Paper Shell	(B)	$I \times L$	
	(C)	Makhdoom	9	Non Pareil	
	(E)	Answer not known			
77.	In wh	nich variety of Ber, the fruits are rou	nd ai	nd similar to crab apple	
	(A)	Kaithli		Seb	
	(C)	Umran	1	Seo	
	(E)	Answer not known			
	(_)				

78.	Total	l quantity of sennoside present in K	KM-1	variety of senna is
	(A)	1.50%	(3)	2.54%
	(C)	3.86%	(D)	4.12%
	(E)	Answer not known		
79.	The c	chief constituent of the oil obtained	from .	Artemisia pallens is
	(A)	Eugenol	(B)	Citronellol
	4	Davanone	(D)	Vetivone
	(E)	Answer not known		
80.	The d	liosgenin content in 'Arka upkar' va	riety	of D.floribunda is
	(A)	2 – 3%	S	3 – 4%
	(C)	8 – 10%	(D)	10 – 12%
	(E)	Answer not known		
81.	In Isa	bgol, the husk : seed ratio is		
	(A)	50:50	98	25:75
	(C)	40:60	(D)	75:25
	(E)	Answer not known		
32.	Hybri	d lavender/Lavendin is botanically	called	las
	(A)	Lavendula angustifolia	(B)	L. latifolia
	40	L. hybrida	(D)	L. stoechas

(E)

Answer not known

83.	Which one of the following statement is "not true" while considering growing media for raising nursery plants							
	4	It should denature upon pas	steurization					
	(B)	It should preferably neutral in reaction						
	(C)	It should free from contamin	nation					
	(D)	(D) It should be retentive of enough moisture						
	(E)	Answer not known						
84.		ratio of 4:3:2:2:1:1 of Leaf m rubbish respectively is requir		loam, horse manure, brick pieces and ring pot mixture to grow				
	(A)	Cacti and Succulents	(B)	Bulbous plants				
	(C)	Palms		Ferns				
	(E)	Answer not known						
85.	Prop	pasation by apomietic seedling	s are commo	n in				
	(A)	Sapota	48	Citrus				
	(C)	Grapes	(D)	Guava				
	(E)	Answer not known						
86.	The	longevity of cocoa seeds is						
	(A)	7 days	(B)	1 year				
	(C)	60 days	0	4 months				
	(E)	Answer not known						
87.		ch of the following statement rusion in seed occurs due to	is not true	with respect to the process of radicle				
	(A)	Negative osmotic potential						
	(B)	Expansion of cells surround	ing radicle					
	4	Division of cells surrounding	g radicle					
	(D)	Flexibility of cellwall in rad	icle					
	(E)	Answer not known						

88.	Low	temperature favours more amount of	conversion in potato.	
	(A)	Starch	(B)	Cellulose
	(C)	Hemi cellulose	10	Sugar
	(E)	Answer not known		
89.	The p	erennial type of morniga are propa	gated	through
	(A)	Root cuttings	(B)	Air layers
	(C)	Seeds	0	Stem cuttings
	(E)	Answer not known		
90.	Seedle	ess triploid water melon variety is		
	(A)	Aska manik	(B)	Durgapura Meetha
	4	Pusa Bedana	(D)	Sugar Baby
	(E)	Answer not known		
91.	The v	ariety of potato resistant to wart dis	sease	
	(A)	Kufri sutlej	(B)	Kufri jawahar
	(C)	Kufri pukhraj	9	Kufri jyoti
	(E)	Answer not known	*	
	*			
92.	White	Vienna is a variety of		
	(A)	Sprouting Broccoli	(B)	Broccoli
	40	Knol khol	(D)	Brussels sprouts
	(E)	Answer not known		

93.	Chilling sensitive flowers should be stored at temperatures above				
	(A)	Above 0° – 5°C	45)	Above 10°C	
	(C)	Above -5°C	(D)	Above –5 to 0°C	
	(E)	Answer not known			
94.	Waxi	ng of fruit and vegetables can help i	n .		
	(A)	Increasing the TSS content			
	(B)	Increasing the respiratory rate			
	4	Reducing the water loss during ha	ndlin	g	
	(D)	Reducing the TSS content during s	torag	ge .	
	(E)	Answer not known			
•					
95.	The c	cultivar of onion is reported to have	more	sprouting problem of bulbs	
	(A)	Pink	(B)	Purple	
	(C)	Rose	<b>S</b>	White .	
	(E)	Answer not known			
96.	The o	dry ginger recovery obtained from gr	een g	ringer during processing is	
	(A)	12 – 16 percent	(B)	25 – 30 percent	
	(C)	30 – 35 percent	9	16 – 25 percent	
	(E)	Answer not known			
97.	The s	superficial spotting of lenticels occur	s in a	pple at high temperature is called a	
	(A)	Sunburn scald	4	Jonathan spot	
	(C)	Senescent blotch	(D)	Skin necrosis	
	(E)	Answer not known			
	**				

98.	In he	eavy metal contaminated soils, hea	avy met	als affects the
	(A)	Cell wall	VS)	Chlorophyll
	(C)	Mitochondria	(D)	Nucleus
	(E)	Answer not known		
99.		shifting of reproductive phase tion is	from	vegetative phase in respect of ligh
	(A)	Photo respiration	(B)	Critical period
	(C)	Vernalizations	0	Photo periodism
	(E)	Answer not known		
100.	In H	eat Stress condition, photosynthet	ic rate i	s in plants
	W	reduced more than respiration r		
	(B)	reduced less than respiration rat	te	
	(C)	reduced equally with respiration	rate	
	(D)	more than respiration rate		
	(E)	Answer not known		
101.	Anco	stor for watermelon is		
101.	(A)	Praecitrullus fistulosus	(B)	Citrullus
	(A)	Citrullus colocynthis		
	(E)	Answer not known	(D)	Citrullus lanatus
102.	Seed	less variety and as well root stock	have be	en derived through aneuploidy in
	(A)	Mango	0	Guava
	(C)	Sapota	(D)	Pomegranate
	(E)	Answer not known		
103.	In_	family acute irradiation wi	th X ray	vs or gamma rays induces a temporary
*	loss	of Self Incompatibity.		•
	45	Solanaceae	(B)	Cucurbitaceae
	(C)	Brassicaceae	(D)	Convulvulaceae
	(E)	Answer not known		

104.	AIK	Surabi is a variety of		
	(A)	Jasminum auriculatum	(B)	Jasminum sambac
	*(C)	Jasminum officinale	8	Jasminum grandiflorum
	(E)	Answer not known		
105.	Which	h of the following varieties of Tuber	ose is	suitable for cut flower?
	(A)	Prajwal	(6)	Srinagar
	(C)	Vaibhav	(D)	Surasini
	(E)	Answer not known		
106.	"Droo	ping florets" of chrysanthemum are	class	sified/grouped under
	(A)	Spoon	(B)	Pompon
	(C)	Anemones	9	Reflexed
	(E)	Answer not known		
107.	The v	vorld famous Lillium macklinine (S	iroy li	ly) is native to
	(A)	Mizoram	(B)	Nagaland
	4	Manipur	(D)	Meghalaya
	(E)	Answer not known		
108.	An in	stitute connected with "Chrysanthe	mum	breeding" is
	4.5	NBRI, Lucknow	(B)	NBFGR, Lucknow
	(C)	CISH, Lucknow	(D)	IISR, Lucknow
	(E)	Answer not known		

109.	req	Irrigation a relatively new system is designed to reduce energy uirements for widely spaced Horticultural crops
	(A)	Drip.Irrigation
	(B)	Canvas Dam
	(C)	Micro Sprinkler
	9	Bubbler Irrigation
	(E)	Answer not known
110.	In a	apple, high HDP system accommodates plants/ha.
	(A)	<250
	(B)	250-500
	10	500-1250
	(D)	>1250
	(E)	Answer not known
	(11)	Allower not known
•		
111.	Cho	ose the correct statements
		ient Film Technique (NFT)
	I.	True hydroponic system
	II.	The plant roots are exposed to nutrient solution
	III.	The plants are grown in trough or container, the roots are suspended or sprayed with nutrient mist
	IV.	It is a combined structure of growing fish and plants
	(A)	I and III are Correct
	0	I and II are Correct
	(C)	II and III are Correct
	(D)	III and IV are Correct
	(E)	Answer not known

112.	The vegetable crop that is <u>not very much</u> suitable for growing as an inter crop in banana					
	(A)	Amaranthes	(B)	Beans		
	4	Cucurbit	(D)	Yam		
* * * * * * * * * * * * * * * * * * *	(E)	Answer not known				
113.	The	optimum soil pH and soil type for cu	ltivat	ion of pineapple are		
V	(A)	4.5 to 5.0 & Clay loam	100	5.5 to 6.0 & Sandy loam		
	(C)	6.5 to 7.0 & loany lateria	(D)	7.0 to 5.0 & Hevy clay		
	(E)	Answer not known				
114.	Fron	nt set in Adriatic of common fid is du	e to			
	W	Parthenocarpic	(B)	Wasp pollination		
	(C)	Wind Pollination	(D)	Ant pollination		
1	(E)	Answer not known				
115.	Under optimal growing conditions of climate and soil, the removal of macro nutrien by banana is in the order of					
	(A)	N > P > K and K is $> N$	1	N > P < K and K is > N		
	(C)	N > P > K and K is $< N$	(D)	N < P < K and K is < N		
	(E)	Answer not known				
116.		dopting 'Ambe banar' technique, por ths of	megra	nate fruits can be harvested during the		
	(A)	October-December	(3)	June-July		
	(C)	September-January	(D)	January-February		
	(E)	Answer not known				
117.	Sun	burn of grape berries is often encou	ntered	l in the training method of		
	W	Kniffin system	(B)	V system		
	(C)	Y system	(D)	Flat roof gable system		
	(E)	Answer not known				
118.	The plan	mango ( $10 \times 10$ ) and phalsa ( $10$ ) ting in one hectare, what is the total	× 10 al plan	M) planted in the Quincun × Systemets in two hectare for both crops?		
	(A)	100 Nos.	(B)	200 Nos.		
	0	362 Nos.	(D)	189 Nos.		
	(E)	Answer not known				

119.	. The	country which account for half of the	e wor	la production of clove is
	(A)	Srilanka	(B)	India
	4	Indonesia	(D)	Malaysia
	(E)	Answer not known		
120.	The	spineless mutant of Solanum Khasia	anum	
	(A)	Arka mahima	(B)	Glaxo mutant
	(C)	BARC – 1 mutant	9	11HRZn – 11
	(E)	Answer not known		
3.00				
121.	Wha	t is the chief constituent of Artemisi	a oil?	
	(A)	Devana furans	(B)	ISO davanone
	9	Artemisinin	(D)	Davanone
	(E)	Answer not known		
122.	Choo	se the special feature of Solanum K	hasia	num variety Arka Sanjeevini
	(A)	Suitable for inter cropping	(B)	Suitable for ratoon cropping
	4	Spineless variety	(D)	It is partheno carpy type
	(E)	Answer not known		
123.	What	is the major alkaloid present in Sa	rpaga	ndha?
	(A)	Vin blastine	S	Ajmalicine
	(C)	Serpentanoid	(D)	Rauvolfia
	(E)	Answer not known		

124.	The	rootstock of plum that is resistant to	Cora	i, Conar rot and Nematode is
	(A)	St.Julien K.	(B)	Pixi
	5	Myrobalan	(D)	Mariana
	(E)	Answer not known		
125.	The	treatment of IBA at the rate of 5000 _ cuttings.	0 ppn	m is effective in inducing rooting in the
	4	Semi – Hardwood Cuttings	(B)	Hardwood - Cuttings
	(C)	Softwood – Cuttings	(D)	Root Cuttings
	(E)	Answer not known		
126.	The p	precosity in flowering and bearing is	seen	in which of the following combination
	(A)	Sweet orange on Mandarin		
	(B)	Mandarin on Sweet orange		
	(C)	Roughlemon on Mandarin		
	1	Mandarin on roughlemon		
	(E)	Answer not known		
127.		optimum temperature for storage	of	bundled and packed scion wood for
	(1)	5-7°C	(B)	10-12°C
	(C)	14-16°C	(D)	18-20°C
	(E)	Answer not known		
128.	Whic	h growing media takes long time to	decon	npose and convert into organic manure
	(A)	Sphagnam moss		
	(B)	Perlite		
	4	Sawdust		
	(D)	Vermiculite		
	(E)	Answer not known		

28

ADOH/2021

129.	9. Indian Cassava Mosaic virus (ICMV) is transmitted by			
	(A)	aphids	(B)	thrips
	(C)	leaf hopper	4	white fly
	(E)	Answer not known	* .	
130.	Black	k rot disease in knol khol is caused b	oy.	
	N	bacteria	(B)	fungi
	(C)	MLO's	(D)	virus
	(E)	Answer not known		
131.	Fork	ing in carrot is due to		
	(A)	Physiological disorder	(B)	Sandy soil
	4	Hard soil	(D)	Nitrogen deficiency
	(E)	Answer not known		
132.		is the enzyme present in case	sava	that is responsible for HCN production
	in roo	ots.		
÷		Linamarase	(B)	Polyphenol oxidase
	(C)	Acid Invertase	(D)	Alkali invertase
	(E)	Answer not known		
133.	In tor	nato, high amount of abscisic acid is	proc	luced due to
	<b>W</b>	high temperature	(B)	low temperature
	(C)	high rainfall	(D)	low light
	(E)	Answer not known		

134.	The spoilage due to mechanical damage in Banana is			
	(A)	Stem end rot	\$	Crown rot
	(C)	Green mould	(D)	Blue mould
	(E)	Answer not known		
135.	Chlor	ine compounds are added in water	er us	ed for washing fruits and vegetable
	to Kil	1.		
	(A)	Insects	(B)	Nematodes
	4	Bacteria	(D)	Fruit fly
	(E)	Answer not known		
136.	Choos	se the right specification for hot water	er tre	
	(A)	51–55°C for 15 minutes	S	51–55°C for 30 minutes
	(C)	55-60°C for 15 minutes	(D)	55–60°C for 30 minutes
	(E)	Answer not known		
137.	Durin	ng ripening ————————— levels within	fruit	tend to increase.
	(A)	protein	4	sugar
	(C)	starch	(D)	fat
	(E)	Answer not known		

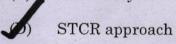
138.		Cuttings under etiolation are found to have a higher level of endogenous at the etiolated site					
	1	Auxin	(B)	Gibberellins			
	(C)	Cytokinins	(D)	Abscisic acids			
	(E)	Answer not known					
139.	The	Precursor of ethylene productions is					
	(A)	Ascorbic acid	0	Methionine			
	(C)	Guanine	(D)	Mevalonic acid			
	(E)	Answer not known					
140.		is classified as class 1 inhibi	tor.				
	(A)	Flourprimidol	(B)	Paclobutrazol			
	9	Maleic Hydrazide	(D)	Trinexapac-ethyl			
	(E)	Answer not known					
141.		pentano perhydro phenantharene i growth regulators listed	ring s	tructure is associated with one of the			
	(A)	Cytokinins	(B)	Gibberellins			
	1	Brassinolide	(D)	Indole Acetic acid			
	(E)	Answer not known					

142.	"Slal	"Slabside" is a physiological disorder of						
	(A)	Tuberos	e	(B)	Jasmine			
	(C)	Anthuri	um		Carnation			
	(E)	Answer	not known					
143.		petal bla ler in	ackening film is	used in poly	whouse to overcome the physiological			
	(4)	Cutrose		(B)	Cut chrysanthemum			
	(C)	Carnatio	on	(D)	Gerbera			
	(E)	Answer	not known					
144.	Stora	age is not	recommended for -	flo	wer.			
	1	Dahlia		(B)	Rose			
	(C)	Chrysan	themum	(D)	Gerbera			
	(E)	Answer	not known					
145.	Asser	rtion (A):	Foliar application	n of cycocel@1	1000 ppm increases the production of			
	Dogg	on (P) .	flowers in Jasmin					
	neas	on (R):	more flowers in J		es more number of shoots and induce			
	4	Both (A)			correct explanation of (A)			
	(B)	Forest			the correct explanation of (A)			
	(C)	(A) is tru	ue but (R) is false					
	(D)	(A) is fal	se but (R) is true					
	(E)	Answer	not known					
146.	Caly	x splitting	in carnation is cau	used due to th	ne deficiency of			
	(A)	Calcium		(B)	Megnisium			
	(C)	Zinc			Boron			
	(E)	Answer	not known					

#### 147. Choose the incorrect statement:

The fertilizer requirement of crop plants can be done by

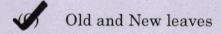
- (A) Soil analysis
- (B) Nutrient replete Studies
- (C) Leaf analysis



(E) Answer not known

## 148. Zinc deficiency symptoms occurs in

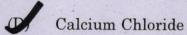
- (A) Old leaves
- (B) New leaves



- (D) Terminal bud
- (E) Answer not known

### 149. Bitter pit in apple can be controlled by using

- (A) Sodium Chloride
- (B) Potassium Chloride
- (C) Ammonium Chloride



(E) Answer not known

150.		raction between different gerces vession of non allele at another locus.		an allele at one locus inhibits th
	(A)	Dominant gene	(B)	Recessive gene
	4	Epistasis	(D)	Inhibitary
	(E)	Answer not known		
151.		reeding programme, after viduals virtually all the plants in the		generations of selfing of heterozygou ulation would be homozygous.
	(A)	2	(B)	4
	(C)	6	0	10
	(E)	Answer not known		
152.	The	HT (100 HTM) 이 시간 이 시간 이 전에 가장 하고 있습니다. 이 시간	ene a	affecting more than one character i
	(A)	Penetrance	(B)	Expressivity
	(C)	Linkage	5	Pleiotropy
	(E)	Answer not known		
153.	The S	Scientists related to Nobilisation of I	ndia	n cases are and
	(A)	N.E. Borlaug and Vilmorin		
	(B)	Thomas Fairchild and Joseph Koel	lrente	$\mathbf{er}$
	(C)	Nilsson and Johannsen.		
	T)	C.A. Barber and T.S. Venkatraman	n	
	(E)	Answer not known		
154.		transport of papaya can be advanta perature and humidy range of	ageoi	asly done in refrigerated containers a
	(A)	8-10° C & 70-80% RH	(B)	10°-11° C & 75-85% RH
	4	12°-13° C & 85-95% RH	(D)	14-15° C & 95-100% RH
	(E)	Answer not known		

155.	A coriander variety which is a reselection from Guntur collection with a should duration of 65 - 70 days is			
	(A)	Suidhu	(3)	Co(CR) – 4
*	(C)	RCr - 41	(D)	Rajendra swati
	(E)	Answer not known		
156.	56. A natural green colour seed coat mutant of fenugreek is			ugreek is
		Hissar mukta	(B)	Hissar madhavi
	(C)	Hissar suvarna	(D)	Hissar sonali
	(E)	Answer not known		
157.	In cas	shew, vengurla - 5 is a cross between		
	(A)	Midnapore Red × Vetore 56	(B)	Ansur 1 × Vetore 56
	(C)	Ansur $1 \times Mysore kotekar$		Ansur Early × Mysore Kotekar
	(E)	Answer not known		
158.	The m	naturity index of vanilla for harvest	indic	ated by
	(A)	when the bean attains light green of	oloui	
	(B)	when the bean attains dark green of	oloui	
		yellowing commences from distal en	nd	
	(D)	yellowing commences from stalk en	d	
	(E)	Answer not known		
159.	What	is the time period from spadix initia	tion	to ripening of nuts in coconut?
	(A)	12 months	(B)	22 months
	(C)	32 months	U.	42 months
	(E)	Answer not known		

160.		method of budding practised extensively in the propagation of sweetoranges, s, plums, and peaches is
	(A)	Patch budding
	(B)	Flap or forket budding
	4	'T' budding
	(D)	Chip budding
	(E)	Answer not known
161.		hich type of Cutting, axillary bud gives rise to the shoot while the roots are ated from the basal end of the stem piece
	(A)	Leaf Cutting
	95	Leaf bud Cutting
,	(C)	Softwood Cutting
	(D)	Herbaceous Cutting
	(E)	Answer not known
162.	Myro	obalan plum roots tolerate excess
102.	(A)	Ca Bo
	(C)	Mo (D) Mn
	(E)	Answer not known
	(11)	Answer not known
163.	Whic	h of the following seeds of the crop has shortest seed viability
	W	Cinnamon
	(B)	Jackfruit
	(C)	Cocoa
	(D)	Mango
	(E)	Answer not known

164.	For foundation lead production of cauliflower, the isolation distance of n is needed.								
	(A)	800	(B)	1000					
	(C)	1200	1	1600					
	(E)	Answer not known							
165.	Und	Under polyhouse, ————————————————————————————————————							
	4	Incandescent	(B)	Fluorescent					
	(C)	High Intensity Discharge (HID)	(D)	Light Emitting Diodes (LED)					
	(E)	Answer not known							
166.		must be harvested before flor	al buo	ds opening and closing of head.					
	(A)	Lettuce	(B)	Brussels sprout					
	4	Broccoli	(D)	Kale					
	(E)	Answer not known		and the state of t					
167.		ost harvest handling of vegetables ondioxide is released is	the	process in which oxygen is used and					
	(A)	Ethylene production	(B)	Transpiration					
	4	Respiration	(D)	Attack by pathogens					
	(E)	Answer not known							
168.		ncrease the female flower production	ction	in Ashgourd, the growth regulator					
	(A)	GA – 40 ppm	6	Ethrel – 250 ppm					
	(C)	24 D – 100 ppm	(D)	Ethylene					
	(E)	Answer not known							

169.	Indian Cardamom Research Institute (ICRI) is located at							
	(A)	Lucknow, Uttar Pradesh	(B) Anand, Gujarat					
	(C)	Ajmer, Rajasthan	Myladumpara, Kerala					
	(E)	Answer not known						
170.	Vine	Vinegar is used as one of the main preservative for preparation						
	1	Pickles	(B) Jam					
	(C)	Jelly.	(D) Syrups					
	(E)	Answer not known						
171.	Find	out the wrong statement with re	spect to dehydration of fruits and vegetables.					
	(A)	Removal of moisture helps in reducing microbial activity						
	(B)	Removal of water reduces enzymatic activity						
	(C)	Removal of moisture increases the sugar concentration						
	1	Removal of water increases the microbial activity						
	(E)	Answer not known						
172.		% of ice,% of v	vater and ——————————————————— of sodium chloride ar					
	used	for preparing shrink for Ice cooling	ng.					
	45	60%, 40% & 0.1%	(B) 50%, 50% & 0.1%					
	(C)	40%, 60% & 0.1%	(D) 70%, 30% & 0.1%					
	(E)	Answer not known						
173.	Dehv	dration temperature for fruits pr	eservation is ———°C.					
110.	(A)	46 – 51°C	(B) 56 – 61°C					
		66 – 71°C	(D) 76 – 81°C					
	(E)	Answer not known	(D) 10 - 01 O					
	(E)	Allower hot known						

174.	The	The plant in which flower opens at night and closes during day.						
	(A)	Fritillana	(B)	Xanthium				
	4	Cestrum nocturnum	(D)	Adenium obesum				
	(E)	Answer not known						
175.	In chillies sparying of at 60 <sup>th</sup> and 90 <sup>th</sup> day after planting for good fruit setting							
	(A)	IAA @ 10 PPM	98	NAA @ 10 PPM				
	(C)	2,4 D@ 10 PPM	(D)	Calcium Nitrate @ 10 PPM				
	(E)	Answer not known						
176.	The juvenile stems formed brunel sprout upto weeks							
	(A)	2.	(B)	3				
	(C)	5		11				
	(E)	Answer not known						
177.	The c	hemical used to induce par	thenocarpy in	brinjal				
	W	2, 4-D	(B)	CPPU				
	(C)	NAA	(D)	Alar				
	(E)	Answer not known						
178.	Physi	ological compound that has	s wound healing	ng property is				
	(A)	Absicissic acid	(8)	Jasmonates				
	(C)	Ethylene	(D)	Brassinosteriods				
	(E)	Answer not known						

179.	An ornamental plant suitable for boundary or tall Hedge is							
	(A)	Bar	leria sp				(B)	Lantana Camera
	9	Tec	oma sta	ns			(D)	Alternanthera
	(E)	Ans	wer not	known				
180.	Ora	nge flo	wer pro	ducing t	ree is			
	(A)		sia gran		ree is		d	Spathodia campanulata
	(C)		aranda I		folia		(D)	Acacia dealbata
	(E)		wer not		J		(D)	reacia acaibata
	(11)	71113	Wel Hot	KHOWH				
181.	Mat		followin					
	т		nese gar				Japanese	
	I. II.		age gard garden	en		1. 2.	Hira – ni	
	III.		garden			3.	Roji – niv	na – niwa
	IV.		garden			4.	Uchi – ro	
		I	II	III	IV	•		
	(A)	1	2	3	4			
Salah .	(B)	4	1	3	2			
	N	3	2	4	1			
	(D)	4	3	2	1			
	(E)		wer not					
100	T., 1.					C	1	
182.				n, appea	ırance	OIC	objects and	their surface is referred to as
	(A)	Scal					<b>(D)</b>	Texture
	(C)	Sur					(n)	Space
	(E)	Ans	wer not	known				
109								
183.	Which of the following flower is stored at 0° to 1° C?  (A) Gladiolus Cymbidium							
	(A)						(D)	Cymbidium
	(C)		tleya				(D)	Heliconium
	(E)	Ans	wer not	KHOWN		* 19		

184.	Plas	astic low tunnel technology is a boon for off season vegetable cultivation in			
	(A)	Hilly areas (B) Hot deserts			
	\$	Cold deserts (D) Plains			
	(E)	Answer not known			
185.		is the instrument used to measure the softening of tissues of fruits as a			
200.					
	index	s of maturity.			
	(A)	Tendrometer (B) Refractometer			
	(C)	Calorimeter Penetrometer			
	(E)	Answer not known			
186.	The r	nost important natural auxin in plants is			
	1	IAA			
	(B)	Phenyl acetic acid			
*	(C)	P-hydroxyphenyl acetic acid			
	(D)	IBA			
	(E)	Answer not known			
1					

	0	Coconut					
	(D)	Datepalm					
	(E)	Answer not known					
100	T	6 11 1	1) 11'11' C 11'				
188.	In o	ten cross pollinated speci	es, the possibility of cross pollination often excee				
	(A)	1 to 4	5 to 30				
	(C)	30 to 40	(D) 40 to 50				
	(E)	Answer not known					
100	CNIC	N 1 (22 16 1					
189.	CMS may be utilized for producing hybrid seed in plant where,						
	(A)	Seed is the economic par					
	(B)	Necessity in breeding procrops	ogramme to produce seed production of self pollinate				
	15	Vegetative part is of ecor	omic value				
	(D)	Other than ornamental p	lants.				
	(E)	Answer not known					
100	Ct		-landita Comment times				
190.	4.5	nens and pistils of nerma vn as	phrodite flowers may mature at different times				
	(A)	Monoecy	(B) Dioecy				
	(C)	Dicliny	Dichogamy				
	(E)	Answer not known					

42

Monoecy is a term related with the

Asparagus

(B) Spinach

187.

(A)

ADOH/2021

191.	In pa	almyrah, the variety SVPR-1 wa	as release	d from
	(A)	Karnataka	(B)	Orissa
	\$	Tamil Nadu	(D)	Andhra pradesh
	(E)	Answer not known		
192.	For a	good growth and production of 'c	umin', tu	rmeric crop requires
	(A)	Subtropical conditions	(B)	Rainy and moist conditions
,	4	Cool and dry conditions	(D)	Warm humid conditions
	(E)	Answer not known		
	· · · · · ·			
193.	Good		ve —	—— fully opened leaves with 12 to 18
	(A)	30 – 40	(B)	10-20
	(C)	20 – 30	(D)	50 - 60
	(E)	Answer not known		
194.	The c	coconut hybrid, VHC - 2 is a cro	ss betwee	en .
	(A)	ECT × Malaysian Dwarf green		
	(B)	Andaman ordinary × Ganga bo	ondam	
	(C)	ECT × Ganga Bondam		
	of.	$ECT \times Malaysian Dwarf yellow$	v .	
	(E)	Answer not known		
195.	The a	areca nut variety tolerant to bur	rowing ne	matode is
	(A)	Mangala	45	Sreemangala
	(C)	PV-1	(D)	CCS-1
	(E)	Answer not known		

196.	The altitude of more than MSL in the western ghat and Eastern ghat hills are classified under southern hilly zone.						
)	(A)	600 m	(B)	700 m			
	1	800 m	(D)	900 m			
	(E)	Answer not known					
197.		C Lab, the plant cultures are inc a light intensity of	ubated i	in AC rooms with 16 hour Photoperiod			
	(A)	500 lux	(3)	1000 lux			
	(C)	1500 lux	(D)	2000 lux			
	(E)	Answer not known					
198.	The	concentration of myo-Inositol requ	ired for	culture medium is			
	48	100 mg/lit	(B)	200 mg/lit			
	(C)	300 mg/lit	(D)	400 mg/lit			
	(E)	Answer not known					
199.		method that is aimed at changing able cultivar is by	the est	ablished plant, tree, shrub or vine into			
** (	(A)	Bridge grafting	(B)	Top working			
	(C)	Buttress grafting	(D)	Saddle grafting			
	(E)	Answer not known					
	Ç.						
200.	In pi	neapple, if suckers are used for pl	anting,	the harvesting will be done at			
X	45	15-18 months after planting					
	(B)	20-22 months after planting	r				
	(C)	24-25 months after planting					
	(D)	25-28 months after planting					
	(E)	Answer not known					

SEAL