Sl. No.: 80001001

		AC	1.11	·U
Register Number				

2014 HORTICULTURE

Time Allowed: 3 Hours]

[Maximum Marks: 300

ACTUO

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

IMPORTANT INSTRUCTIONS

- This Booklet has a cover (this page) which should not be opened till the invigilator gives signal to open
 it at the commencement of the examination. As soon as the signal is received you should tear the right
 side of the booklet cover carefully to open the booklet. Then proceed to answer the questions.
- 2. This Question Booklet contains 200 questions. Prior to attempting to answer the candidates are requested to check whether all the questions are there in series without any omission and ensure there are no blank pages in the question booklet. In case any defect in the Question Paper is noticed it shall be reported to the Invigilator within first 10 minutes.
- 3. Answer all questions. All 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 invigilator to mark the answers.
- 6. You will also encode your Register Number, Subject Code, Question Booklet Sl. No. etc. with Blue or Black ink Ball point pen in the space provided on the side 2 of the Answer Sheet. If you do not encode properly or fail to encode the above information, action will be taken as per commission's notification.
- 7. Each question comprises four responses (A), (B), (C) and (D). You are to select ONLY ONE correct response and mark in your Answer Sheet. In case you feel that there are more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each question. Your total marks will depend on the number of correct responses marked by you in the Answer Sheet.
- 8. In the Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions you are to mark with Blue or Black ink Ball point pen ONLY ONE circle of your choice for each question. Select one response for each question in the Question Booklet and mark in the Answer Sheet. If you mark more than one answer for one question, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, you have to mark as follows:

A • © D

- 9. 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 Hall during the examination. After the examination is concluded, 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.
- 10. The sheet before the last page of the Question Booklet can be used for Rough Work.
- 11. Failure to comply with any of the above instructions will render you liable to such action or penalty as the Commission may decide at their discretion.
- 12. In all matters and in cases of doubt, the English Version is final.
- 13. Do not tick-mark or mark the answers in the Question booklet.

SPACE FOR ROUGH WORK

10010008

1.	Splitt	ing of root is a physiological disorder	in carro	ot caused by
	(A)	High temperature	(B).	Very low temperature
	JOS	Sudden increase in moisture level	(D)	High salinity
2.	Whic	h of the following is called 'mini cabba	age'?	
	(A)	Broccoli	LBI	Brussels sprout
	(C)	Red cabbage	(D)	Rhubarb
3.	Whic	h of the following is not correct?		
	(A)	Chekkurmanis - Sauropus androgy	nus	
	(B)	Celery - Apium graveolens		
	(C)	Globe artichoke – Cyanara scolymus	9	
	COY1	Leek – Lactuca sativa		
4.	Ratoo	oning is practiced in		
	MAS	Annual moringa	(B)	Brinjal
	(C)	Bhendi	(D)	Chilli
5.	'Guar	gum' is obtained from .	x i-	1271
	(A)	Couper	(B)	Cluster bean
	(C)	Garlic	(D)	French bean
6.	Gher	kins are commercially used for makin	ıg	
	(A)	Salad	(B)	Pickles
	(C)	Chips	(D)	Sauerkraut
7.	The s	pecies of pumpkin tolerant to high te	mperat	ure is
	(A)	Cucurbita maxima	(B)	Cucurbita pepo
	(C)	Cucumis sativus	(D)	Cucumis anguina
8.	The r	nursery area required to plant five he	ctares o	f brinjal is
	(A)	800 m ²	(B)	4 cents
	(C)	500 m ²	(D)	25 cents
9.	Evap	orative cooling system will work effic	iently ir	places having
	(A)	Low temperature	(B)	High relative humidity
	· cer	Low relative humidity	(D)	High temperature

10.	w nic	n one of the following is not correct?		
	(A)	Chillies - Capsaicin	(B)	Bittergourd - Mornordicin
	(C)	Garlie – Alliein	Dr.	Tomato - Solasodine
11.	The s	eedlings produced in modular trays ar	e calle	d
	(A)	Stump	(B)	Micro liners
	Jes	Plug	(D)	Sett
12.	'Gaje	ndra' is a variety of		
	(A)	Taro	(B)	Sweet potato
	ver	Elephant foot yam	(D)	Greater yam
13.	Amor	ng the solanaceous vegetables the seed	rate is	s high for
	(A)	Tomato	(B)	Brinjal
	Jes ,	Chillies	(D)	Tomato and Brinjal
14.	Seed	balls containing one or many seeds are	found	d in
	(A)	Coriander	(B)	Carrot
	ser	Beetroot	(D)	Turnip
15.	Best	grades of gherkins are produced w	hen it	is harvested — days after
	SAS	4th and 5th day	(B)	6th and 7th day
	(C)	8th and 9th day	(D)	10th and 11th day
16.	The o	only seed setting variety of aggregate o	nion is	
	(A)	Co-1	(B)	Co-2
	(C)	Co-4	(D)	Co-5
17.	Which	h one of the following is not a perennia	l vege	table?
	(A)	Chekkurmanis	(B)	Asparagus
	(C)	Artichoke	SDI	Cabbage

ACFHO

18.	Mos	Most of the cultivars of big onion are long day plants and long days								
	CAS	Has	ten bulb	formati	on		(B)	Increase vegetative growth		
	(C)	Indu	ice flowe	ering			(D)	Induce seed setting		
19.	Amo	ng the	followin	ng vegeta	ables w	hich is no	rmally	y planted on both the sides of ridges?		
	(A)	Pota					(B)			
	(C)	Bhei	ndi				(D)	Carrot		
20.	The	presen	t produ	ction of v	egetab	le crops in	India	a is about		
	(A)	102	million	tonnes		W. W.	(B)	132 million tonnes		
	Jes"	162	million	tonnes			(D)	182 million tonnes		
21.	Mate	ch List	1 with	List 2 an	d selec	t the corre	ect ans	swer using the code given below the lists		
		List 1				List 2		and death and obtain action and itself		
	(a)	Kotta	ivazhai		1.	MH				
	(b)	Bloss	om thin	ning	2.	2,4 D				
	(c)		ripenin		3.	NAA				
	(d)	Dorm	ancy		4.	Ethrel				
	Code	:								
		()	4		(3)					
	· (A)	(a)	(b)	(c)	(d)					
	(A) (B)	3 2	3	4	1					
	(B)	2	3	1 4	4					
	(D)	3	2	1	1 4		14415			
	(D)	2	4	1	*					
22.	Mate			List 2 an	d selec		ct ans	swer using the code given below the lists		
	(-)	List 1				List 2	1			
	(a)	Smud			1.	Silver oa	ık			
	(b) (c)	Coppi			2.	Fig				
	(d)	Notch			4.	Mango Eucalypt	tuo			
	Code		mg		7.	Eucarypi	Lus			
	Couc									
		(a)	(b)	(c)	(d)					
	(A)	4	3	2	1					
	(B)	3	4	1	2					
	(C)	3	4	2	1					
	(D)	4	1	3	2					

23. Match List 1 with List 2 and select the correct answer using the code given below the sts

List 1

List 2

(a) Lawn

- 1. Drip irrigation
- (b) Bottle gourd
- . 2. Misting
- (c) Carnation
- 3. Sprinkler irrigation

(d) Coconut

4. Furrow irrigation

Code:

- (a)
- (b)

2

1

3

(d)

1

1

4

4

- CAS
- .
- (B) 3
- 4

(c)

- (C) 3
- 4
- (D) 2
- 2
- 24. Match List 1 with List 2 and select the correct answer using the code given below the lists

List 1

List 2

(a) Isabgol

1. Colchicine

(b) Gloriosa

2. Roots

(c) Senna

- 3. Husk
- (d) Sarpagandha
- 4. Leaves

Code:

- (a)
- (b)

1

1

(d)

3

4

2

1

- (A) 4
- (c) 2
- (B) 3
- 2
- 1

- (D) 4
- 4
- 2 3
- 25. The seeds of seedless watermelon are produced by crossing a tetraploid with a deploid
 - (A) Not correct
 - (B) Not possible
 - 105
 - Correct
 - (D) Will be a failure

20.	Asse	ruon (A).	Mulching in Turmer	ic is done six	months after planting	
	Reas	on (R):	Mulching can be don trash	e with green	leaves or banana preudoster	n or sugarcane
	(A)	A is true	and R is false			See In his
	(B)	Both A a	and R are true			
	(C)	Both A a	and R are false			
	(B)	R is true	e and A is false			
27.	Asse	rtion (A):	Bitter pit in Apple is	due to Calci	um deficiency	
P 3	Reas	on (R):	Bitter pit causes cole	our change in	fruits and develops cracks	
	JAS	Both A a	and R are true			
	(B)	Both A a	and R are false			
	(C)	A is true	but R is false			
	(D)	R is true	and A is false			
28.	Asse	rtion (A):	Edible bananas are p	parthenocarp	ic	
	Reas	on (R):	Edible bananas deve	lop fruits wi	thout pollination	
	(A)	Both A a	and R are true			
	(B)	A is true	but R is false			
	(C)	Both A a	and R are false			
	(D)	A is false	e but R is true			
29.	Cons	ider the st	catements			
	I	Propping	is done in banana			
	II	Denavelin	ng is practised in grap	oes		
	III	Desucker	ing is followed in citr	us		
	IV	Notching	is done in mango			
	JAY	I alone is	s correct	(B)	I and II are correct	41
	(C)	I, II and	III are correct	(D)	I and IV are correct	
30.	Cons	ider the st	atements			
	I	Multitier	cropping involves int	ercropping a	nd mixed cropping	
	II	In multiti	ier cropping land is ef	fectively used	ı	
	III	In multiti	ier water is effectively	used		
	IV	In multiti	ier sun light is not eff	ectively used		
	(A)	I alone is	correct	(B)	II and III are correct	
	JOY	I, II and	III are correct	(D)	I, III and IV are correct	
				7		ACFHO

01.	Cons	idei the statements		
	I	Notching is a partial ringing of a b	ranch abo	ve a dormant lateral bud
	II	Notching produces a strong shoot		
	III	Notching reduces the supply of wa	ter from b	elow through the xylem
	IV	Notching is otherwise called as rin	ging	
	SHO	I and II are correct	(B)	I, II and III are correct
	(C)	III and IV are correct	(D)	II and IV are correct
32.	The	vegetable which does not belong to	cucurbitac	eae is
	(A)	Gherkin	(B)	Tinda
	ser	Knol-khol	(D)	Pointed gourd
33.		can be economically grow	wn under i	rain fed conditions
	(A)	Gloriosa	(B)	Coleus
	ser.	Senna	(D)	Brahmi
34.	Cent	tering is the practice followed in		
	(A)	Cashew	(B)	Coffee
	(C)	Areca nut	SD)	Tea
35.	The	nitrogen content in FYM is		
	(A)	1.0 - 1.5%	(B)	0.05 - 0.07%
	(C)	2.0 – 2.5%	LOS"	0.5 – 0.7%
36.	Whic	ch one of the following growth regul	lators is us	sed to increase latex flow in rubber?
	(A)	GA ₃	(B)	BA
	(C)	IAA	JOY -	Ethrel
37.	Sod	culture reduces the incidence of —		— in mango
	(A)	Malformation	(B)	Black-tip
	(C)	Fruit drop	(D)	Spongy tissue
38.	Quir	ncunx system of planting is otherwi	se called a	as a second seco
	(A)	Triangular system	(B)	Diagonal system
	(C)	Hexagonal system	(D)	Square system
AC	FHO		8	

39.	•			quick gr	rowing f	ruit crops which	ch are grown as intercrops in fruit orchards
	CAS	Filler	S			(B)	Cover crops
	(C)	Trap	crops			(D)	Tier crops
40.	Leaf	mould	is rich i	in			
	JAT	Hum	us			(B)	Potash
	(C)	Phosp	ohoric a	acid		(D)	Phosphorus
41.	Mate	h the fo	ollowin	g			
		Name	of the c	crops		Presence of e	sters
	(a)	Grapes	S		1.	Pentyl valera	ate
	(b)	Apple			2.	Ethyle butyr	
	(c)	Orang			3.	Methyle salid	
	(d) Code	Strawl:	perry		4.	Octyl acetate	
		(a)	(b)	(c)	(d)		
	(A)	3	1	2	4		
. 7	(B) (C)	3	2	1 2	4		
		3	1	4	2		
42.				ing is re	sistant	to cold injury?	
	(A)	Cucui	mber			(B)	Chilli
	JOY	Aspai	ragus			(D)	Musk melon
43.	Natio	onal Re	search	Centre f	or orchi	ds is located at	
	(A)	Solan	, Hima	chal		(B)	Bhubaneshwar, Orisa
	vor	Pakyo	ong, Sil	kkim	•	(D)	Medziphema, Nagaland
44.	Whic	h form	of suga	r is pred	lominar	ntly present in	grapes at ripening?
	(A)	Lacto	se			(B)	Glucose
	(C)	Malto	ose			(D)	Hemi cellulose
45.	WTO	is loca	ted at				
1%	(A)	Berlin	n, Gern	nany		.985	Geneva, Switzerland
	(C)		Franc			(D)	Rome, Italy

46.	Nam	e the fruit crop having the high	nest fat conten	t in a land				
	(A)	Date palm	BY	Avocado				
	(C)	Custard apple	(D)	Litchi				
47.	Arou	nd 70 percent of potato was exp	ported from In	dia during 2012-13 to				
	(A)	United Arab Emirates	CBT*	Nepal				
	(C)	Malaysia	(D)	Bangladesh				
48.	Nam	e the country importing 60 per	cent of the ma	ngo from India during 2012-13				
	(A)	Bangladesh	OP'	United Arab emirates				
	(C)	United kingdom	(D)	Malaysia				
49.	The l	eading tapioca producing state	in India duri	ng 2012-13 was				
	(A)	Kerala	JOBY	Tamil Nadu				
	(C)	Madhya Pradesh	(D)	Andra Pradesh				
50.	Nam	e the state standing first in ma	ingo productio	n in India during 2012-13				
	(A)	Gujarath	(B)	Karnataka				
	(C)	Uttar Pradesh	(D)	Andhra Pradesh				
51.	Among the several states, the top four states of India, producing fruits are as follows as per 2012-13 figure							
	LAS	Andhra > Maharastra > Guja	rath > Tamil	Nadu				
	(B)	Tamil Nadu > Gujarath > An	dhra > Mahar	astra				
	(C)	Gujarath > Tamil Nadu > An	dhra > Mahar	astra				
	(D)	Maharastra > Tamil Nadu >	Andhra > Guj	arath				
52.	Amo		the one cultiva	ated in the maximum area in India during				
	(A)	Onion	(B)	Tomato				
	Jes	Potato	(D)	Brinjal				
ACI	НО		10					

53.	Avera	age productivity of horticultural crop	s in Indi	a during 2007-08 was
	(A)	9.3 tonnes per hectare	(B)	11.3 tonnes per hectare
	(C).	13.3 tonnes per hectare	(D)	17.3 tonnes per hectare
				的別是基件的
54.	Total	geographical area in India is		
	(A)	629 million hectare	(B)	529 million hectare
	(C)	429 million hectare	or	329 million hectare
55.	Natio	onal Bureau of Plant Genetics resour	ces is loc	ated at
	(A)	Bangalore	(B)	Nagpur
	JOY	New Delhi	(D)	Karnal
56.	Natio	onal Research Centre for pomegrana	te is loca	ted at
	CAN	Solapur, Maharastra	(B)	Bijapur, Karnataka
	(C)	Anantapur, Andhra Pradesh	(D)	Jagdalpur, Chattisgarh
57.	Cent	ral Institute of Arid Horticulture is l	ocated at	
	(A)	Rajah mundry, Andra Pradesh	(B)	Nagpur, Maharashtra
	(C)	Kanpur, Uttar Pradesh	vor	Bikaner, Rajasthan
58.	The S	Science of growing and caring of orna	mental t	rees is called
	(A)	Viticulture	(B)	Pomology
	(C)	Olericulture	ON'	Arboriculture
59.	Hydr	oponics is an art of growing plants		
	(A)	Without soil and nutrients	(B)	Without soil alone
	(C)	Without nutrients and chemicals	(D)	Without nutrients alone
60.	Amor	ng the following, the maximum conte	nt of car	pohydrate is found in
	(A)	Banana fruit	(B)	Sweet potato tuber
	ser	Dates	(D)	Avocado fruits

61.	Japai	nese art of growing miniature trees	and shru	bs is called as
	(A)	Terrarium	(B)	Arboratium
	ser.	Bonsai	(D)	Pot Pourri
62.	Exam	pple for a foliage tree is		
	(A)	Cassia fistula	CBS*	Polyalthia longifolia
	(C)	Delonix regia	(D)	Bauhinia purpurea
63.	Exam	aple for herbaceous perennial is		
	JAST'	Golden red	(B)	Zinnia
	(C)	Cosmos	(D)	Balsam
64.	A nor	n-flowering climber with attractive f	foliage is	
	(A)	Quisqualis indica	(B)	Allamanda grandiflora
	(C)	Petrea volubilis	DY	Hedera helix
65.	Suita	ble irrigation system for lawn is		
	(A)	Drip irrigation	(B)	Flood irrigation
	(C)	Pitcher irrigation	son'	Sprinkler irrigation
66.	Botar	nical name for bermuda grass is		
	(A)	Cyprus rotundus	(B)	Cyprus deformis
	CON	Cynodon dactylon	(D)	Lolium multiflorum
67.	Plant	suitable for boundary/tall hedge is		
	(A)	Gerbera	(B)	Coleus
	(C)	Iresine	SES	Bougainvillea
68.	Yello	w coloured flowering annual is		
	(A)	Rose	(B)	Tuberose
	ser	Marigold	(D)	Bougainuvillea
ACF	но		12	

69.	Hill g	arden, tea garden and fla	t garden are compoi	nents of
	LAST	Japanese garden	(B)	Moghul garden
	(C)	English garden	(D)	Italian garden
70.	Arto	f training plants into diffe	rent shapes is calle	d as
	(A)	Trophy	(B)	THE RELEASE OF THE PARTY OF THE
	(C)	Terrarium		Topiary
71.	Frag	rant oil can be extracted f	rom	
	(A)	Crossandra	(B)	Gomphrena
	(C)	Zinnia		Jasmine.
72.	Frier	ndship is a variety of		
	(A)	Jasmine	(B)	Carnation
	(C)	Gerbera	or .	Gladiolus
73.	The	variety of tomato recommo	ended for rainfed cu	ltivation is
	(A)	Arka Meghali	(B)	CO-3
	(C)	PKM-1	or	Paiyur – 1
74.	Bota	nical name of African man	rigold is	
	JA)	Tagetes erecta	(B)	Tagetes patula
	(C)	Petunia hybrida	(D)	Helianthus annus
75.	Min	iature roses are ideally su	ited for	
	(A)	Water garden	(B)	Pots
	(C)	Terrarium	(D)	Edges
76.	Tub	erose is propagated by		
	(A)	Rhizomes	(B)	Runners
	SON	Bulbs	(D)	Tubers

11.	Orna	mental paims can be propagated by		
	SAS	Seeds	(B)	Grafting
	(C)	Bulbs	(D)	Budding
78.	Chry	santhemum is a ———— plan	nt	
	(A)	Long day	(B)	Day neutral
	Jer .	Short day	(D)	Photo insensitive
79.	Optir	num spacing for Jasminum sambac	is	
	(A)	90 × 60 cm	(B)	1.0 × 0.5 m
	ser	1.25 × 1.25 m	(D)	2.0 × 0.9 m
80.	Jasm	ine belongs to the family		
	(A)	Acanthaceae	(B)	Apocynaceae
	ses	Oleaceae	(D)	Malvaceae
81.	Bota	nically, pineapple fruit is a		
	(A)	Syconium	(B)	Sorosis
	(C)	Berry	(D)	Balusta
82.	Pome	egranate is commercially propagated	l through	
	(A)	Soft wood cuttings	(B)	Grafting
	JOY	Hard wood cuttings	(D)	Suckers
83.	For f	lowering, the chilling temperature r	equireme	nt of strawberry plants is
	(A)	Below 0°C	(B)	Below 5°C
	(C)	Below 10°C	(D)	Below 15°C
84.	In se	lf unfruitful pear varieties a polleni	zer should	d be planted at
	SAT	Every 4th tree in every 4th row	(B)	Every 5th tree in every 5th row
	(C)	Every 6th tree in every 6th row	(D)	Every 7th tree in every 7th row

ACFHO

85.	The a	mount seeds required to raise seedlin	g for or	ne hectare of papaya is
	car	500g	(B)	1,000g
	(C)	1,500g	(D)	2,000g
86.	For lo	ng distance transport strawberries ca	n be ha	arvested when they are
	SAS	Green	(B)	Yellow
	(C)	Red	(D)	Black
87.	The n	nango variety most suited for high der	sity pl	anting is
	(A)	Sindhu	(B)	Bangalora
	SON	Amrapali	(D)	Mulgoa
88.	Gran	ulation in citrus can be reduced by spi	aying	
	(A)	Manganese	BY	Copper
	(C)	Magnesium	(D)	Boron
89.	Bahar	r treatment is practiced in		
	SAY	Citrus, pomegranate and guava	(B)	Mango, sapota and pineapple
	(C)	Apple, pear and plum	(D)	Grapes and papaya
90.	The re	egular bearing mango variety is		
	SAST	Bangalora	(B)	Banganapalli
	(C)	Peter	(D)	Jahangir
91.	Berry	elongation and thinning in grapes is	done w	rith
	(A)	Ethephon	(B)	GA_3
	(C)	NAA	(D)	2, 4-D
92.	In pin	neapple, planting of	– will	come to harvest earlier
	(A)	Crowns	(B)	Slips
	ser	Suckers	(D)	Seeds

93.	Find	out the mismatch		
	(A)	Spinach	- Ch	enopodiaceae
	(B)	Multivitamin green	- Eu	phorbiaceae
	ver	Asparagus	- As	teraceae
	(D)	Winged bean	- Fa	baceae
94.	In ha	nana, the fertilizers sh	ould be applied dur	ing
	and -	month a		mg ,
, TO	(A)	2 nd , 4 th and 6 th	OB.	3rd, 5th and 7th
	(C)	4th, 6th and 8th		6th, 8th and 10th
95.	In Be	r, under rainfed conditi	ons, the radius of sa	aucer basin for rain water harvest should be
	(A)	2 M	(B)	3 M
	(C)	4 M	(D)	5 M
96.	For c	hemical thinning of pea	r fruits, spraying of	NAA @ 25 PPM is done during
	(A)	3-8 days before petal f		3-8 days after petal fall
	(C)	6 weeks after blooming	g (D)	6 weeks before blooming
97.	The v	videly cultivated Indian	Ber is	
	(A)	Zizyphus jujube	(B)	Zizyphus mauritiana
	(C)	Zizyphus rulgaris	(D)	Zizyphs sativa
98	Paddy	y straw mulching is com	mercially followed	for
	(A)	Pineapple	(B)	
	ser	Strawberry	(D)	Peach
99.	Fasci	ation is found in		
	(A)	Guava	(B)	Mango
	Son	Pineapple	(D)	Banana
100.	Bendi	ing is an intercultural o	peration performed	in
	(A)	Papaya	(8)	
	(C)	Sapota	(D)	
ACF	но		16	
ALVI.			10	

101	Which	h one of the following is correctly mate	ched?	
	(A) .	Carnauba Wax	-	Provide effective control of weight loss
	(B)	Shellac based waxes		Give best shine
	(C)	Polythene based waxes	-	Cause rind injury
	(D)	Resin based waxes	-	Give low shine
102.	Durii	ng picking, care must be taken to avoi	d any p	possible damages to the
	(A)	Twigs	(B)	Canes
	ser	Spurs	(D)	Buds
103.	Relat	tive humidity should be monitored wit	h	
	(A)	Humidifier	(B)	Hygrometer
	(C)	Tensiometer	(D)	None of the above
104.	Whic	h one of the following is correctly mate	ched?	
	(A)	Very low ethylene production rate		Mango
	(B)	Moderate ethylene production rate	-	Papaya
	(C)	High ethylene production rate	_	Citrus
	(B)	Very high ethylene production rate	-	Passion fruit
105.	Whic	h one of the following is correctly mate	ched?	
	CASA	Polemounted cut and hold picking shears	-	Jack
	(B)	Hook type fruit plucker	-	High density Orchards
	(C)	Mechanical harvester	-	Mango
	(D)	Manual harvesting	- :	Strawberries
106.	Whic	h one of the following is correctly mate	ched?	
	(A)	Lye peeling	_	Apples, Peeches and cherries
	(B)	Flame peeling	-	Garlic and onion
	(C)	Mechanical peeling	_	Irregular shaped fruits
	(D)	Hand peeling	4	1-2% caustic soda
			-	ACTUA

107.	Whie	h one of the following is correctly	matched?						
	(A)	Penicillium sp.	-	Causes spoilage of canned fruits					
	(B)	Aspergillus sp.	-	Blue moulds					
	407	Mucor sp.	-	Grey mould					
	(D)	Byssochlamys fulva	-	Black mould					
108.	Cons	ider the statements							
	(i)	The inhibitory action of preserve of cell division, permeability of c		e to their interference with the mechanism me, and activity of enzymes					
	(ii)	Sulphur-di-oxide has good prese	rving action	against bacteria and moulds					
	(iii)	Sulphur-di-oxide increases mon	o enzymatic	browning					
	(iv)	Sulphur-di-oxide is not genera bi sulphite and meta bi sulphite		the form of its salts such as sulphite,					
	Of th	e above statements							
	(A)	(i) alone correct							
	(B)	(i) and (ii) are correct							
	(C)	(i), (ii) and (iii) are correct							
	(D)	All are correct							
109.	Duri	ng fruit juice canning pasteurizat	ion is done a	at the temperature of					
	(A)	71° C	SBU	74° C					
	(C)	77° C	(D)	80° C					
110.	Cons	ider the statements							
	(i)	For each increase of 10° C above three fold	ve optimum	, rate of deterioration increases by two to					
	(ii)	Rate of enzymatic reactions dec	reases with	increase in temperature					
	(iii)	Rate of chemical reactions appr	oximately de	oubles for each 10° C rise in temperature					
	(iv)	Temperature below optimum range for a given commodity causes freezing or chilling injury							
		Of the above statements							
	(A)	(i) alone correct	(B)	(i) and (ii) are correct					
	(C)	(i), (ii) and (iii) are correct	(B)	(i), (iii) and (iv) are correct					
ACF	НО		18						

Cons	ider the statements		
(i)	The 'continuous agitating cookers' canning of fruits	are ge	enerally used in big production units for
(ii)			okers' the processing time is reduce
(iii)	Fruits require much severe steriliza	tion tha	an non acid vegetables
(iv)	Non-acid vegetables require to be pr	cocessed	d at temperatures much above 100° C
	Of the above statements		
(A)	(i) alone correct	(B)	(i) and (ii) are correct
(C)	(i), (ii) and (iii) are correct	ABI'	(i), (ii) and (iv) are correct
Air is	s evacuated by vacuum pump to achie	ve desi	red low pressure in
(A)	Refrigerated storage	(B)	Air Cooled storage
JOY	Hydrobaric storage	(D)	Controlled atmospheric storage
Re-us	sable packaging material is		
(A)	Stretch film	(B)	Film wrap
(C)	Cellophane	CON'	Polypropylene corrugated box
Whic	h one of the following post harvest ap	plicatio	on of hormones is correctly matched?
(A)	Gibberellins	_	Inhibits onion sprouting
(B)	Cytokinins		Retards ripening of tomato
ser	2, 4 D + BA	_	Retards yellowing of cauliflower
(D)	Maleic hydrazide	-	Retards maturity of leafy vegetables
Best	time for picking fruits is during		
(A)	Evening hours	(B)^	Early morning
(C)	Mid day	(D)	Night hours
The i	deal temperature for storage often de	pends o	on the
(A)		(B)	Nutrient content of the product
ser!	Geographical origin of the product	(D)	Colour of the product
The c	concentration of hot brine solution for	coverin	ng vegetables is
Sas	1-3 percent	(B)	3-5 percent
(C)	5-7 percent	(D)	7-9 percent
	(i) (ii) (iii) (iv) (A) (C) Air is (A) (C) Re-us (A) (C) Whice (A) (B) (D) Best (A) (C) The i (A) (C)	canning of fruits (ii) By using the 'continuous agitat considerably during canning of fruit (iii) Fruits require much severe sterilizative. Non-acid vegetables require to be professed of the above statements. (A) (i) alone correct. (C) (i), (ii) and (iii) are correct. Air is evacuated by vacuum pump to achie. (A) Refrigerated storage. (B) Hydrobaric storage. Re-usable packaging material is. (C) Cellophane. Which one of the following post harvest ap. (A) Gibberellins. (B) Cytokinins. (C) 2, 4 D + BA. (D) Maleic hydrazide. Best time for picking fruits is during. (A) Evening hours. (C) Mid day. The ideal temperature for storage often de. (A) Size and shape of the product. (B) Geographical origin of the product. The concentration of hot brine solution for 1-3 percent.	(i) The 'continuous agitating cookers' are general canning of fruits (ii) By using the 'continuous agitating considerably during canning of fruits (iii) Fruits require much severe sterilization that (iv) Non-acid vegetables require to be processed of the above statements (A) (i) alone correct (B) (C) (i), (ii) and (iii) are correct (B) Air is evacuated by vacuum pump to achieve desired (A) Refrigerated storage (B) (B) (C) Hydrobaric storage (D) Re-usable packaging material is (A) Stretch film (B) (C) Cellophane (D) Which one of the following post harvest application (A) Gibberellins (B) (C) Cytokinins (C) 2, 4 D + BA (D) Maleic hydrazide (D) Best time for picking fruits is during (A) Evening hours (D) (C) Mid day (D) The ideal temperature for storage often depends of (A) Size and shape of the product (B) (C) Geographical origin of the product (D)

110.	Duri	ng preparation of vinegar sinced fruit	and sug	ar juice are mixed in proportion o
	(A)	2:1	(B)	3:1
	Jes	4:1	(D)	5:1
119.	In re	spect of world vegetable production, In	ndia rar	nks
	(A)	First		Second
	(C)	Third	(D)	Fourth
120.	Produ	ucts harvested from hot fields have		
	(A)	High rates of transpiration	(B)	High rates of respiration
	(C)	High rates of chilling injury	(D)	High rates of evaporation
121.	Budd	ing is most commonly done when the	re is	
	(A)	Early initiation of growth in plants	(B)	No gap flow in plants
	(C)	Late initiation of growth in plants	WY'	Good sap flow in the plant
122.	Mang	go seeds lose their viability within:		
	(A)	3 – 4 weeks	(B)	4-5 weeks
	(C)	3 – 4 months	(D)	4-5 months
123.	In nu	tmeg, the sex problem can be overcon	ne by	
	(A)	Seed propagation	(B)	Softwood grafting
	(C)	Budding	On'	Epicotyl grafting
124.	Garli	c is propagated by cloves. The alterna	te meth	od of propagation is by using:
	(A)	Corm	(B)	Seed
	ver	Bulbils	(D)	Bulbs
125.	Whic	h one of the following is correctly mat	ched?	
	(A)	CO ₂	-	Hormonal effect
	(B)	Ethylene	-	Root initiation
	(C)	Auxin	-	Senescence
	von	Cells	-	Totipotency

20

ACFHO

120	Synt	netic seed	is in ve	egetable	s are p	produced by			
	(A)	Embryo	rescu	e		(B)	Micro propagation	
	ver ·	Somatio	embr	yo genes	sis .	(D)	Anther culture	Re al
127.		sider the s							
	Doul	ole workir	ng in gr	rafting o	r bud	ding to avoid	in	compatability and is done by:	
	(1)	Using tw	o part	s viz; sc	ion an	d root stock			
	(2)	Using th	ree pa	rts viz, 1	oot st	ock, scion and	li	nterstock	
	(3)	Using tw	o part	s viz, ro	ot stoc	k and interst	OC	k	
	(4)	Using tw	o part	s viz, sci	ion an	d interstock			44
		Of the st	ateme	nts					
	(A)	1 alone	is corr	ect		B	^	2 alone is correct	
	(C)	1, 2 and	3 are	correct	50	(D))	All are correct	
	+ 1								
128.	Whic	h one of t	he follo	owing is	corre	ctly-matched	ar	d write the correct code.	1
		List - I				List – II		a write the correct code.	
	(a)	Hermetical seal			1.	Seed viabili	ity		
	(b)	Accelerated ageing			2.	Low temper	ra	ture	
	(c)	Cryopres	ervatio	on	3.	High tempe	era	ture	
	(d)	Tetrazoli	um		4.	Aluminium	p	ouches	
		(a) (b)	(c)	(d)				
	(A)	2 . 4		1	3				
	(B)	4 3		2	1				
	(C)	2 1		3	4				
	(D)	1 3		2	4				
129.	Citra	nges the	notent	ial root	stock	of citrus has c	2201	ginated as a result of cross bet	
	(A)	Citrus s							ween
	(0)							Sweet orange × Mandarin	
	(16)	Trifoliat	e oran	ge x 5we	eet ora	inge (D)		Trifoliate orange × Mandarin	
130.	Dwar	fing root	stock u	sed in h	igh de	ensity plantin	g	of ber is	
	(A)	Z. jujuba				(B)		Z. nummularia	
	(C)	Z. lotus				(D)		Z. rotundifolia	
30						21			ACTIV
						41			ACFHO

131.	neca	icitran	its are ti	iose		
	(A)	Seed	ls germin	nating or	nly after	r the process of ripening
	(B)	Seed	ls germin	nating p	rior to f	ruit maturity
	ver	Seed	ls germin	nating in	nmedia	tely after ripening and harvest
	(D)	Seed	ls germin	nating at	fter pro	longed storage and drying
100	¥7.		.1.	1 :		
132.			observe	din		
	(A)	Avoc				Jack fruit
	(C)	Coffe	ee			(D) Mango
133.	Clove	e is pro	opagated	by		
	(A)	Bude		As		Seed Seed
1	(C)	Graf				(D) Layering
134.	Matc	h the	correct a	nswers	and wri	te the correct code
		77	1.1			N. A. V.
	(a)	Kuru			1.	Northern spy X m-series
	(b)	Old H			2.	Salt resistant polyembryonic root stock of mango Nematode resistant root stock
	(c) (d)	Kalar	s macrop	byllo	3. 4.	
	(u)		write the			Dwarf polyembryonic mango root stock
			(b)			
	(A)	(a)	2	(c) 3	(d)	
	(B)	3	1	4	2	
	(er	2	1	4	3	
	(D)		3	2	1	
135.			w is prop	agated l	у	
	(A)	Seed				(B) Vine cutting
	ser.	Enti	re fruit			(D) Tuber
136.	Choo	se the	right an	swer		
	(A)				ew is do	one in six months old root stock
						one on 20-25 years old senile tree
- 500	(B)					
	(C)					one on dead trees
	(D)	Top	working	in cash	ew is do	one on disease affected branches

10	1110	variet.	y or curn	terre sur	table 10.	drought and s	aime son is				
-	(A)	IISF	R Prathil	oha		(B)	Ranga				
	(C)	Rasi	mi			(B)	CO-1				
138.	The	tempo	rary sha	de tree s	uitable	for planting in	cardamom plantation is				
	(A)	Arto	carpus f	raxini fo	lius	(B)	Cedrella loona				
	(C)	Dios	pyrous e	ebenum		JON OF	Erythrina lithosperma				
139.	Mult	iple se	election								
	(1) Carrot is an annual requiring one seasons to complete its root growth.										
	(2)	Cari	rot is a b	ienniel a	and requ	uires two seaso	ns for maturing a crop of seed				
	(3)	Stec	klings a	re plante	ed to pro	oduce seed					
	(4)	Carı	cot is cor	nmercial	ly prop	agated through	stecklings				
		Of t	hese star	tements,	write t	he correct one					
	(A)	1 ald	one is co	rrect		(B)	1 and 2 are correct				
	Jer	1, 2	and 3 ar	e correct	t	(D)	4 is correct				
	(a) (b) (c) (d) (A) (B) (C)	Radio Hypo Cotyl Plum (a) 1 2	cotyl edon	(c) 4 4 3	1. 2. 3. 4. (d) 3 3 2	Stem extendi Rudimentary Miniature sh Leaves					
	(D)	3	2	1	4						
141.	The	extrac	tion of sa	ap from l	Palmyra	ah inflorescence	e is known as				
	(A)	Stak	ing			(B)	Tapping				
	(C)	Cutt	ing			(D)	Trimming				
142.	Feni	is pre	pared fro	om							
	(A)		alm			(B)	Arecanut				
	(C)	Cocc				.OPY	Cashew				
	-										

143.	Cash	ew belongs to the family of		
	(A)	Musaceae	(B)	Anacardiaceae
	(C)	Rutaceae	(D)	Rhamnaceae
144.		mil Nadu, Coconut Research Sta	ition is situat	
	(A)	Srivilliputhore	(B)	Arupukottai
	Jes.	Vaepankulam	(D)	Vathalagundu
145.	The fl	lowering behaviour of cocoa belo	ngs to	
	(A)	Auxillary	(B)	Terminal
+ 1	ven	Cauliflorus	(D)	Terminal and auxillary
146.		er is propagated commercially th		
	(A)	Cuttings	(B)	Layerings
	(6)	Buddings	(D)	Graftings
147.	The g	eneral fertilizer recommendation	n for turmeri	c is
	KAY	125:60:60 Kg NPk/ha	(B)	150: 100: 100 Kg NPk/ha
	(C)	250 : 125: 125 Kg NPk/ha	(D)	300: 150: 150 Kg NPk/ha
148.	Turm	eric belongs to the family of		
140.	(A)	Rubiaceae	(B)	Zingiberaceae
	(C)	Euphorbiaceae	(D)	Anacardiaceae
	(0)	Euphorbiaceae	(D)	Anacardiaceae
149.	The n	nutant variety in ginger is		
	(A)	Rio-de-Janeiro	(B)	Suprabha
	(e)	Surari	(D)	Suruchi
150.	Trash	ing is an important intercultura	al operation f	or
	(A)	Pepper		Cardamom
	(C)	Turmeric	(D)	Ginger
			(2)	
151.	The i	nflorescence in cardamom is term	med as	
	(A)	Panicle	(B)	Spike
	(C)	Cyme	(D)	Raceme
ACF	ОНЭ		24	

152	Thea	flarins in tea is responsible for		
	(A)	Texture	(B)	Colour
	(C)	Smell	(D)	Consistency
153.	Panc	hami is a variety of		
100.	(A)	Cardamom	(B)	Pepper
	(C)	Ginger	(D)	Turmeric
154.	Pann	er is propagated commercially through		
104.	(A)	Leaf cutting	(B)^	Vine cutting
	(C)	Root cutting	(D)	Layering
155.	The l	botanical name of commercially cultiva	ited pe	oper is
	(A)	Piper mullesua	(B)	Piper cubeba
	ses	Piper nigrum	(D)	Piper longum
156.	SVP	R – 1 is a variety of		
	(A)	Arecanut	(B)	Oil palm
	cer	Palmyrah	(D)	Coconut
157.	The	oil is patchouli is obtained from		
	(A)	Fresh leaves	(B)	Fresh roots
	ser	Shade dried leaves	(D)	Dried flowers
158.	The	hybrid tenera belongs to		
100.	(A)	Coconut	(B)	Arecanut
	(A)	Oil palm		Palmyrah
159.	In In	dia, Coconut is largely cultivated in		
	(A)	Tamil Nadu	(B)	Kerala
	(C)	Karnataka	(D)	Andhra Pradesh
160.	Coco	a is commercially propagated through		
	SAST	Seeds	(B)	Cuttings
	(C)	Layerings	(D)	Budding

161.	KKII	208 is a variety of		
	(A)	Tea	(B)	Coffee
	ser.	Rubber	(D)	Cocoa
162.		——— is the state flower of T	amil Nadu.	
	(A)	Gladiolus	(B)	Aster .
	Ser	Glory lily	(D)	Jasmine
163.	Coffe	e originated from		
	(A)	India	(B)	Ethiopia
	(C)	Brazil	(D)	Australia
164.	Tea i	s propagated through		
	(A)	Layering	(B)	Cutting
	(C)	Grafting	(D)	Budding
165.	The (Central Plantation Crop Research		located at
	(A)	Kottayam	BY	Kasargod
	(C)	Vellanikara	(D)	Cochin
166.	Tama	arind is commercially propaga	ated through	
	SAN	Seeds	(B)	Cutting
	(C)	Layering	(D)	Micro propagation
167.	The	medicinal principle of Solanur	n <u>Khaisianum</u> i	s
	(A)	Tylo phorine	(B)	Cathartine
	ser!	Solasodine	(D)	Vincristine
168.	Duri	ng vedic period ———— is	s the Lord of Ay	urvedic healing
	(A)	Lord Muruga	(B)	Lord Shiva
	ser	Lord Dhanvantri	(D)	Lord Vaitheeswara
169.	Gera	nium is propagated through		
	(A)	Seeds	(B)	Terminal cuttings
	(C)	Suckers	(D)	Rhizomes

170.	Apric	ot can be classified under					
	(A)	Pome	(B)	Pepo			
	(C)	Berry	ABN .	Drupe			
171.		—— is a medicinal plant which	h is a climbi	ng perennial.			
1	(A)	Ashmagandha	(B)	Sarpagandha			
	(C)	Aloe vera	(D)	Glory Lily			
172.	Horti	Horticultural practice followed for bud formation and fruit growth is					
	SAS	Bending	(B)	Gridling			
	(C)	Root pruning	(D)	Smudging			
173.	Sona	is a high yielding variety of —	crop	released from CIMAP.			
	(A)	Colepus	(B)	Peri winkle			
	(C)	Solanum	son'	Senna			
174.	The c	crop widely used in cosmetic indu	astry is				
	(A)	Ashmagandha	(B)	Coleous			
	Jes?	Aloe vera	(D)	Mint			
175.	The S	Sennoside content present in the	pods of Senr	na is			
	(A)	2.5 – 25%	Br	1.25 - 2.5%			
	(C)	25 – 50%	(D)	0.25 - 0.3%			
176.	176. ———— tree is most suitable for avenue planting						
	SAT	Delonix regia	(B)	Michelia Champaka			
	(C)	Saraca indica	(D)	Ficus religiosa			
177.	The a	alkaloid present in Ashmagandh	a is				
	(A)	Solasodine	(B)	Vincristine			
	(C)	Piperine	JOS 1	Withanine			
		The state of the s					

178.	. Aloe vera is propagated through					
	(A)	Seeds	(B)	Tubers		
	(C)	Leaf cuttings	Dr	Root suckers		
179.	Double variety of tuberose is					
	(A)	Rakthagandha	(B)	Super Star		
	ser	Calcutta Double	(D)	Friendship		
180.	resea	is a variety of lemon grass arch station, Kerala	releas	ed from Aromatic and medicinal plant		
	(A)	Savithiri	(B)	Sugandhi		
	(C)	Anburani	(D)	Sunanthini		
181.		is shallow rooted and requires	freque	nt irrigation		
	(A)	Ocimum	(B)	Mint		
	(C)	Geranium	(D)	Citronella		
182.	The i	deal pH for rooting of cutting is				
	SAS	5.5 - 6.5	(B)	4.5 - 5.0		
	(C)	6.5 – 7.0	(D)	5.0 - 5.5		
183.	Which plantation crop is heliotropic in nature?					
1	(A)	Cocoa	(B)	Coconut		
7 1/2	ues'	Coffee	(D)	Arecanut		
184.	In av	acado, softening during ripening is du	e to			
	LAS	Hydrolysis of fat	(B)	Breakdown of starch		
	(C)	Degradation of Chlorophyll	(D)	Break down of proteins		
185.	Alkal	ine soil can be reclaimed by applying				
	(A)	Lime	(B)	Potassium sulphate		
	con	Gypsum		Epsum		
ACFI	НО	28				

180	Nutr	Nutmeg is					
	(A)	Monoecious	AB)	Dioecious			
	(C)	Gynomonoecious	(D)	Gyno dioecious			
187.	Fruit	t drop in chilli is controlled by spra	ying				
	(A)	NAA	(B)	Triacontanol			
	(C)	IAA	(D)	Both (A) and (B)			
188.	Fruit	necrosis in anola is due to deficien	cy of				
	(A)	Calcium	(B)	Phosphorus			
	Jes	Boron	(D)	Iron			
	X A SA						
189.	Abnormal leaf fall is mainly due to the accumulation of						
	(A)	ABA	(B)	Cytokinin			
	(C)	GA	(D)	Ethylene			
190.	The b	ootanical name of phalsa is					
	SAST	Grewia subinequalis	(B)	Phydis peruviana			
	(C)	Garcinia cowa	(D)	Garcinia mangostona			
191.	Low t	temperature in banana leads to					
	SAS	Chocking	(B)	Flushing			
	(C)	Flowering	(D)	Scorching			
192.		nation and fertilization takes plessness is known as	ace but	the embryo gets aborted resulting in			
	(A)	Stimulative parthenocarpy					
	(B)	Vegetative parthenocarpy					
	Jes 1	Stenospermo carpy					
	(D)	Polyembryony					

193.		is a variety of guava, fruits of v	which a	re pyriform in shape		
	(A)	Lucknow-49	(B)	Lucknow-46		
	(C)	Arka mridula	(D)	Chittidar		
194.	The r	novement of auxin is				
	(A)	Lateral	(B)	Basipetal		
	(C)	Acropetal	(D)	Immobile		
195.	Initia	ation of flower bud makes the ends of -		— phase.		
	(A)	Reproductive phase	BI	Vegetative phase		
	(C)	Juvenile phase	(D)	Seedling emergence phase		
196.	Pre-h	narvest fruit drop in citrus is controlled	d by sp	raying ———		
	JAY	2, 4 – D	(B)	GA ₃		
	(C)	Ethephon	(D)	МН		
197.	Gyno	odioecious type of sex forms is seen in				
	(A)	Papaya	(B)	Grapes		
	(C)	Mango	(D)	Guava		
198.	Bud	netting is done in				
	(A)	Orchids	(B)	Jasmine		
	(e)	Rose	(D)	Gerbera		
199.	A phenomenon of gynoecium maturing earlier than androecium is called:					
	(A)	Protandry	(B)	Protogyny		
	(C)	Heterostyly	(D)	Herkogamy		
200.	Janu	ary – February flowering season is cal	led as			
	(A)	Mrig bahar	(B)	Ambe bahar		
	(C)	Hasta bahar	(D)	None of the above		