JAMMU AND KASHMIR PUBLIC SERVICE COMMISSION

RESHAM GHAR COLONY, BAKSHI NAGAR, JAMMU - 180001

Website: http://jkpsc.nic.in email: coejkpsc2017@gmail.com Jammu: 0191-2566533

Subject:

Conduct of Written Examination for the post of Horticulture Development Officer in Agriculture Production Department (Horticulture) - Provisional Answer Key thereof.

Notification No. PSC/Exam/S/2024/29 Dated: 29.05.2024

In pursuance of Rule 10(c) of the Jammu & Kashmir Public Service Commission (Conduct of Examination) Rules, 2022, as amended upto date, the Provisional Answer Key of Question Paper pertaining to the **Written Test for the post of Horticulture Development Officer** held on **29.05.2024**, is hereby notified for seeking objections from candidates:

Provisional Answer Key

est Booklet (Serie	Question No es A)
Q1	В
Q2	С
Q3	С
Q4	С
Q5	С
Q6	D
Q7	A
Q8	В
Q9	В
Q10	С
Q11	C
Q12	A
Q13	A
Q14	В
Q15	D
Q16	В
Q17	С
Q18	D
Q19	D
Q20	В
Q21	A
Q22	D
Q23	A
Q24	C
Q25	С
Q26	В
Q27	С

020	D
Q28	В
Q29	A
Q30	В
Q31	C
Q32	D
Q33	С
Q34	D
Q35	Α
Q36	D
Q37	С
Q38	С
Q39	· C
Q40	В
Q41	Α
Q42	A
Q43	В
Q44	С
Q45	D
Q46	D
Q47	С
Q48	A
Q49	В
Q50	A
Q51	A
Q52	С
Q53	A
Q54	A

	t Question No. ies A)
Q55	A
Q56	D
Q57	В
Q58	В
Q59	В
Q60	С
Q61	В
Q62	A
Q63	C
Q64	В
Q65	В
Q66	С
Q67	A
Q68	A
Q69	A
Q70	D
Q71	A
Q72	С
Q73	В
Q74	D
Q75	С
Q76	В
Q77	В
Q78	C
Q79	D
Q80	В
Q81	В

Test Booklet (Seri	Question No. es A)
Q82	С
Q83	В
Q84	D
Q85	D
Q86	D
Q87	A
Q88	Α
Q89	С
Q90	A
Q91	С
Q92	С
Q93	Α
Q94	Α

Test Booklet (Seri	
Q95	A
Q96	A
Q97	C
Q98	D
Q99	В
Q100	С
Q101	С
Q102	В
Q103	С
Q104	A
Q105	A
Q106	В
Q107	В

Test Booklet (Seri	
Q108	A
Q109	В
Q110	С
Q111	D
Q112	C
Q113	A
Q114	В
Q115	С
Q116	С
Q117	С
Q118	D
Q119	С
Q120	D

The candidates are advised to refer to **Question Booklet (Series A)** to match the corresponding question(s) in their respective Question Booklet Series and if any candidate feels that the key to any of the question(s) is/are wrong, he/she may represent on prescribed format/proforma annexed as **Annexure-A** along with the documentary proof/evidence (hard copies only) and fee of Rs.500/- per question in the form of Demand Draft drawn in favour of **COE**, **J&K PSC** (refundable in case of genuine/correct representation) to the Controller of Examinations, Jammu & Kashmir Public Service Commission, from 30.05.2024 to 03.06.2024. **The candidates are further advised to clearly mention the question(s) objected to with reference to its serial number as it appears in the Question Booklet of Series A of the Provisional Answer Key.**

Further, any objection/application not accompanied by the requisite Demand Draft of Rs.500/- as prescribed, shall not be considered/entertained under any circumstances. Candidates are, in their own interest, advised to adhere to these instructions and not submit any objection unaccompanied by the Demand Draft as required under extant rules.

The Commission shall not entertain any such representation(s) after the expiry of the stipulated period i.e. after 03.06.2024 (Monday), 05.00 pm.

The provisional answer key is available on the website of the Commission http://www.jkpsc.nic.in.

29.05.2024

(G.L Sharma), JKAS Additional Secretary

I&K Public Service Commission

→ Dated: 29.05.2024

No. PSC/Ex-Secy/2024/23

Copy to the: -

1. Director, Information and Public Relations, J&K for publication of the notice in all leading newspapers published from Jammu/Srinagar.

- 2. P.S. to Hon'ble Chairman, J&K Public Service Commission for information of the Hon'ble Chairman.
- 3. P.S. to Hon'ble Member, Shri ______ for information of the Hon'ble Member.
- 4. P. A. to Secretary, J&K Public Service Commission for information of the Secretary.
- 5. P.A. to Controller of Examinations, J&K Public Service Commission.
- 6. Main file/Stock file/Notice Board.

Annexure-A

Representation regarding objection(s) to any Question/Answer pertaining to the Written Test conducted for the post(s) of Horticulture Development Officer on 29.05.2024

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

ame of the Ap	plicant :		
oll No. :			
orrespondenc	e Address :		
ontact/Mobile	e No. :		
ate of Applica	tion:		
emand Draft l			
andidates Acc	ount No.(16 digit) & IFSC Code		
Question No. in	Details of the Objection	Resource Material (copy to be	Details of the Website
Series A		enclosed)	(if any)
			as .as

Signature of the Candidate

Note: Application for each question/answer shall be made on separate page in the given format, otherwise the first question entered in the format shall only be considered.

Booklet Serial No.

204045

Test Booklet Series

TEST BOOKLET HORTICULTURE DEVELOPMENT OFFICER Written Test - 2024



Time Allowed: Three Hours

Maximum Marks: 120

INSTRUCTIONS

- 1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- 2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- 3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

 DO NOT* write anything else* on the Test Booklet.
- 4. This Test booklet contains 120 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
- 5. You have to mark all your responses *ONLY* on the separate Answer /Response Sheet provided. *See directions in the Response Sheet.*
- 6. All items carry equal marks.
- 7. Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- 10. While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(17) (A)/2024

IP.T.O.

1.	Which post harvest treatment is primarily used to delay ripening of fruits and vegeta	
	A)	Irradiation
	B)	Controlled atmosphere storage
	C)	Freezing
	D)	Blanching
2.	Whi	ch of the following is the most important benefit offered by FPOs to their members?
	A)	Increased competition among farmers
	B)	Lower selling prices
	C)	Collective bargaining power
	D)	Agriculture inputs at higher costs
3.	W/h·	y are horticulture plantations typically more labour intensive than field crop farming?
3.		They require less technical expertise.
	A) B)	They are larger in size.
	C)	They require specialised cultivation practices.
	D)	They are less profitable.
	D)	They are less promable.
4.	Ope	ration greens aims to support farmers of which types of crops by providing subsidies
		ansportation and storage to prevent post harvest losses?
	A)	Cereals and pulses.
	B)	Root vegetables.
	C)	TOP (Tomato, Onion, Potato).
	D)	Leafy greens.
	G.	
5.		kgo biloba is traditionally used to improve.
	A)	Digestion.
	B)	Sleep.
	C)	Memory and cognitive function.
	D)	Skin.
6.	Wh	ich of the following is one of the main focus of horticulture cluster development
	prog	gramme.
	A)	To provide insurance for horticulture crops in clusters.
	B)	To develop export oriented infrastructure.
	C)	To promote farmer producer organisation.
	D)	To enhance the competitiveness of horticulture clusters.

7.	Wha	at type of pruning is essential in vineyards to ensure good quality and yield of grapes?
	A)	Hard pruning.
	B)	Soft pruning.
	C)	No pruning.
	D)	Randomised pruning.
8.	Wha	at is a common processing method used to extract essential oils from aromatic plants?
	A)	Fermentation.
	B)	Steam distillation.
	C)	Cold pressing.
	D)	Sun drying.
9.		nfed farming often involves integrated farming systems. What is the main advantage uch systems?
	A)	Increased dependence on chemical inputs.
	B)	They offer diversification that can buffer farmers against weather variability.
	C)	They simplify farm management practices.
	D)	They require large investments in technology.
10.	Wha	at type of crop is typically preferred in rainfed farming.
	A)	Rice
	B)	Wheat.
	C)	Sorghum.
	D)	Sugarcane.
11.	Wha	at type of legal entity can an FPO be registered as in India?
	A)	Only as non profit organisation.
	B)	Only as a cooperative society.
	C)	As cooperative society, private limited or public limited company.
	D)	Only as a government agency.
12.	Inte	grated pest management includes all of following except.
	A)	Use of chemical pesticide firstly.
	B)	Biological control techniques.
	C)	Cultural practices.
	D)	Monitoring pest populations.

	B)	Rate of respiration.	
	C)	Rate of ethylene production.	
	D)	Rate of decay.	
	T 1'	' I d'a tra Cominga Daggarah (HCD) ig lagated at	
15.		lian Institute of Spices Research (IISR) is located at	
	A)	Sreekariyan.	
	B)	Panniyur.	
	C)	Karamana.	
	D)	Kozhikode.	
16.	Poly	lyembryony is noticed in	
	A)	Apple.	
	B)	Mango.	
	C)	Sapota.	
	D)		
17.	Lux	x Meter is used to find out.	
	A)		
	B)		
	C)		
	D)		
18.		unsell's chart is used to determine.	
		Soil pH.	
	B)		
	C)		
	D)) Soil colour.	
(17) (A)	(5)	[P.T.O.

13. What is the significance of traceability systems in marketing of horticultural crops? Help in identifying the source of produce in case of health scare. To make the product prices among source producers competitive.

14. Which of the following is best indicator of metabolic activity and potential storage life

To determine nutritional quality of produce.

Only important for marketing.

Rate of transpiration.

B)

C)

D)

A)

of fresh produce?

19.	Rep	pair grafting is otherwise known as
	A)	Epicotyls grafting.
	B)	Top working.
	C)	Spice grafting.
	D)	Inarching.
20.		is a technique used to disinfect seed beds
	A)	Scarification.
	B)	Solarisation.
	C)	Stratification.
	D)	Salinization.
	_	
21.		wn manuring refers to application of
	A)	Oil cakes.
	B)	Farm yard manure.
	C)	Vermicompost.
	D)	Fertilizers.
22.		uction or elimination of dormancy in crop plants is due to
	A)	Domestication.
	B)	Hybridisation.
	C)	Mutation.
	D)	Acclimatization.
23.		a has highest productivity in the world of
	A)	Banana.
	B)	Mango.
	C)	Grapes.
	D)	Melon.
24.	Corr	pretition of nollination and fartilization in amount of factors 1.1.1.1
	A)	npetition of pollination and fertilisation in unopened flower bud is known as. Chasmogamy.
	B)	Apogamy.
	C)	Cleistogamy
	D)	Dichogamy.
(17)		
(17)		(6)

25.	Vola of	atile toxic substances accumulate in the tissue when fruit are stored in environment
	A)	Above normal physiological range.
	B)	Below normal physiological range.
	C)	Under poor ventilation condition
	D)	In CA storage.
26.	The	enzyme which is responsible for browning of fruits and vegetables is
	A)	Lipo oxidase.
	B)	Polyphenol oxidase.
	C)	Amylase.
	D)	Protease.
27.		ts like banana, figs, grapes are susceptible to development of black mould rots due
	to.	
	A)	Rhizopus
	B)	Penecillium.
	C)	Aspergillus.
	D)	Gloeosporium.
28.	Mos	st suitable material for canning of vegetables is
	A)	Tin foil.
	B)	Aluminium.
	C)	Glass.
	D)	Plastic.
29.	Plan	at hormone that plays a key role in ripening and senescence of fruits and vegetables is
	A)	Ethylene.
	B)	Auxin.
	C)	Gibberallic acid.
	D)	None of the above.
30.	Citr	us canker is a
50.	A)	Fungal disease.
	B)	Bacterial disease.
	C)	Nutrient deficiency
	D)	Protozoal disease.
(17)	(A)	(7) [P.T.O.

(17)	(A)	(8)
	D)	None.
	C)	Both (A) and (B).
	B)	Sub tropical zone.
	A)	Tropical zone.
36.		us roxburghii is very healthy growing in
	D)	Decorative path.
	D)	Frequent path.
	A)B)	Temporary path.
33.	Δ)	Functional path.
35.		is used for daily movement in the landscape.
	D)	Lack of light.
	C)	Botrytis.
	B)	Nitrogen deficiency.
	A)	Salt damage.
34.		new growth of 'Dieffenbachia' is weak and spindly with large gaps between leaves. problem most likely is.
	D)	Corm.
	C)	Bulb.
	B)	Tuber.
	A)	Rizhome.
33.	Tuli	p is an example of
	D)	None of the above.
	C)	40-60%
	B)	< 20%
	A)	10%
32.		ording to international standards, medicinal plants are those which have active edient in the range of
	D)	None of the above.
	C)	Viability of seeds.
	B)	Detection of nitrogen content.
	A)	Estimation of chlorine in leaves.

Tetrazolium chloride test is used for

31.

37.	Whi	ch of the following vegetables has a dioecious behaviour?
	A)	Onion.
	B)	Cabbage.
	C)	Bitter gourd.
	D)	Spinach.
38.	Druj	pe fruits have 3 ovarian layers
	A)	Fused
	B)	Mixed.
	C)	Seperated.
	D)	None.
39.		ch of the following sets of soil requirements correctly matches the corresponding
		iculture crops?
	A)	Apples: Well drained, loamy soil with pH of 6.0-7.0.
		Peppers: Heavy clay soil with pH of 4.5-5.5
		Lettuce: Silt loam soil with pH of 6.0-7.0.
	B)	Apples: Poorly drained, clay soil, pH of 5.0-6.0.
		Peppers: Sandy loam soil with pH of 6.5-7.5.
		Lettuce: Silt loam with pH of 6.0-7.0.
	C)	Apples: Well drained, loamy soil with pH of 6.0-7.0.
		Peppers: Well drained loam or sandy loam with pH of 5.5-7.0.
		Lettuce: Well drained sandy loam or loam soil with pH 6.0-7.0.
	D)	Apples: Sandy soil with pH 4.5-5.5
		Peppers: Poorly drained clay, pH 7.5-8.5
		Lettuce: Heavy clay with pH 7.0-8.0
40.	Wh	at is the primary advantage of using mist propagation systems in Nursery Management?
	A)	Reduce labor costs associated with watering plants manually.
	B)	Increase humidity around propagation material enhancing rooting.
	C)	Allow for uniform application of fertilizer solution across crops.
	D)	Prevent the spread of diseases among young plants.

- Why is grafting preferred method of propagation for many fruit trees for commercial purposes?
 A) Ensures genetic uniformity and replication of desirable traits.
 B) Less labour intensive compared to seed propagation.
 C) Does not require any specialised skills as equipment.
 D) Allows plants to mature and produce fruit at an earlier stage.
- 42. What advantage does use of plasticulture provide in cultivation of horticulture crops?
 - A) Enhances water use efficiency.
 - B) Completely negates the need for pest management.
 - C) Decreases dependency on manual labour.
 - D) Reduces genetic variability among crop cultivars.
- 43. In marketing of horticulture crops, what does the term value addition primarily refer to?
 - A) Increasing crop value through genetic modification.
 - B) Extending product range derived from original crop through processing.
 - C) Techniques that add to the aesthetic appearance of fresh produce.
 - D) Strategies that reduce the production cost of horticulture crops.
- **44.** Which nutrient deficiency is commonly associated with 'little leaf' disease in fruit crops like peaches?
 - A) Nitrogen.
 - B) Phosphorus.
 - C) Zinc.
 - D) Magnesium.
- **45.** Which class of insecticides target the nervous system of insects but is considered relatively safe for use around humans due to specific mode of action?
 - A) Organophosphates.
 - B) Carbamates.
 - C) Neo nicotinoids.
 - D) Pyrethroids.

46.	Wha setting	t safety precaution is critical when applying non selective herbicides in horticultural ngs?
	A)	Using them during dormant stage of crop.
	B)	Ensuring that chemical doesn't drift to non target species.
	C)	Applying only in dry weather condition.
	D)	All of the above.

- 47. How are insecticides classified according to world Health Organisation based on their toxicity?
 - A) Categories I, II, III, IV where I is least toxic and IV is most toxic.
 - B) Categories A,B,C,D where A represents highest hazard and D lowest.
 - C) Categories I, II, III, IV where I is most toxic and IV is least toxic.
 - D) Categories Red, Orange, Yellow, Green based on increasing levels of environmental risk.
- 48. What common physiological disorder is associated with calcium deficiency in Geraniums?
 - A) Chlorosis.
 - B) Necrosis.
 - C) Blossom end rot.
 - D) Tip burn
- 49. Toxic substance found in litchi seed is,
 - A) Saponin
 - B) Methylene cyclopropyl glycine.
 - C) Ethyale hexanoate.
 - D) Methyle butanoate.
- 50. Which of the following flowering mechanism is observed in Kamlam fruit.
 - A) Pin type heterostyly.
 - B) Thrum type heterostyly.
 - C) Distyly.
 - D) Tristyly.

51.	The	The union between stock and scion of budded plants takes place through:	
	A)	Cambium.	
	B)	Cortex.	
	C)	Xylem.	
	D)	Stomata.	
52.	52. What is the condition where some berries within a grapes cluster grow much la smaller than the typical berries.		
	A)	Hen and Rooster Syndrome.	
	B)	Duck and Goose Condition.	
	C)	Hen and Chicken Disorder.	
	D)	Turkey and Quail Syndrome.	
53.	The	first fruit crop to be whole genome sequenced is:	
	A)	Grape.	
	B)	Papaya.	
	C)	Apple.	
	D)	Peach.	
54.	Spec	cies of mango which can withstand waterlogging conditions	
	A)	Mangifera inocarpoides.	
	B)	Mangifera pajang.	
	C)	Mangifera similis.	
	D)	Mangifera decandra.	
55.	Gen	era with highest number of species under family Caricaceae is	
	A)	Carica.	
	B)	Jacartia.	
	C)	Jarilla.	
	D)	Cyclomorpha.	

56.	Pusa	Nanha, a dwarf mutant evolved by treating papaya seed with	rays.
	A)	50 Kr gamma rays.	
	B)	5 Kr gamma rays.	
	C)	70 Kr gamma rays.	
	D)	15 Kr gamma rays.	
57.	Gra	de and quality of papain is determined by	
	A)	Phenylalanine unit.	
	B)	Tyrosine unit.	
	C)	Caseinolytic unit.	
	D)	Tryptophan unit.	
58.	Frui	t phyllotaxis of 21/55 is a character of fruit.	
	A)	Durian.	
	B)	Pineapple.	
	C)	Jackfruit.	
	D)	Fig.	
59.	Fall	ing of dried spine like stigma at the tip of fruit when touched is a	maturity index for
		Banana	
	B)	Sapota.	
	C)	Apple.	
	D)	Mango.	
60.	Cul	tivars of which crop are classified as pollination constant and po	llination variant
	A)	Durian.	
	B)	Plum.	
	C)	Persimmon.	
	D)	Avocado.	
(17	. (4)	(13)	[P.T.O.
(1/	(A)	(13)	

61.	Long	g styled flowers of fig which mature only after caprification belongs to
	A)	Adriatic type.
	B)	Smyrna type.
	C)	San Pedro type
	D)	Capri fig type.
62.	Whi	ah finit amang tha fallawing antions implies to weak, inflanceance
02.	A)	ch fruit among the following options implies to wooly inflorescence. Japan plum.
	B)	Jamun.
	C)	Jackfruit.
	D)	Quince.
	ט)	Quince.
63.	Sodi	um hydroxide treatment is used to remove the bitter principle of Olive.
	A)	Oliverein.
	B)	Oleruptine.
	C)	Oleuropein.
	D)	Oleaster
64.	Mai	or valatila compounds responsible for strovybornies fleveur ere
04.	A)	or volatile compounds responsible for strawberries flavour are
	B)	Ethyl propanoate and ethyl hexanoate. Ethyl butanoate and ethyl hexanoate.
	C)	Ethyl propanoate and ethyl butanoate.
	D)	Ethyl heptanoate and ethyl propanoate.
	D)	Early i neptanoate and early i propanoate.
65.	Walı	nuts contain around 65% of its compositions as lipids, which is the major fatty acid
	prese	
	A)	Linolic acid.
	B)	Linolenic acid.
	C)	Oleic acid.
	D)	Palmitic acid.
66.	Blac	k and purple raspberries are propagated by
	A)	Cuttings.
	B)	Suckers.
	C)	Tip layering.
	D)	Stolons.
(17)	(A) .	(14)

67.	True	statement regarding floral development of pecan nut	
	A)	Staminate flowers/catkins are borne laterally on current season's gro	wth.
	B)	Pistillate flowers/spikes are borne laternally on current season's gro	wth.
	C)	Staminate flowers/catkins are borne terminally on current season's g	
	D)	Pistillate flowers/spikes are borne laternally on previous season's gr	
(0	Cala	ect false statement of kiwi	
68.		Kiwi is morphologically dioecious.	
	A)	Pistillate flowers are less attractive to insects.	
	B)	Kiwi follows triple sigmoid growth curve.	
	C)	Dioecious flowers are borne on current season shoots arising from a	uxillary buds
	D)	on one year lateral canes.	
69.	Wh	ich of the following crop has the largest genome size	
	A)	Onion.	
	B)	Potato.	
	C)	Tomato.	
	D)	Carrot.	
70.	Cyte	oplasmic male sterility is utilized for hybrid development in which of p.	the following
	A)	Potato.	
	B)	Melon.	
	C)	Water melon.	
	D)	Carrot.	
71.	Lat	e blight is a major disease of	
	A)	Potato.	
	B)	Onion.	
	C)	Garlic.	
	D)	None.	
72.		CIPSR based genome editing was utilized for the first time in which of getable.	f the following
	A)	Potato.	
	B)	Chilli.	
	C)	Tomato.	
	D)	Carrot.	
(1'	7) (A)	(15)	[P.T.O.

74.	4. Pusa Madhavi is a cultivar of	
	A)	Tomato.
	B)	Potato.
	C)	Carrot.
	D)	Onion.
75.	Bha	rat is a popular hybrid of
	A)	Chilli.
	B)	Brinjal.
	C)	Bell pepper.
	D)	Cucumber.
76.	Nur	sery sowing of vegetables can be done after soil sterilization with
	A)	Captan.
	B)	Formalin.
	C)	Indofil M-45.
	D)	Bavistin.
77	Cook	11
77.		d plot technique in potato is practiced to produce.
	A)	Bacteria free seed.
	B)	Virus free seed
	C)	Fungal free seed.
	D)	None of the above.
78.	Littl	e leaf disease of brinjal is due to
	A)	Bacteria
	B)	Fungus.
	C)	Mycoplasma like organisms.
	D)	Virus.
(17)	(A)	(16)

73. Yellow vein mosaic virus affects which crop.

Brinjal.

Okra.

C) Melon.D) None.

A)

B)

79.		er Harrington's simple Thumb Rule, bles the storability of the vegetable seeds.	percent decrease in temperature nearly
	A)	0.01	
	B)	0.1	
	C)	1.0	
	D)	10	
80.		e flowers are induced for seed production of	of parthenocarpic line of cucumber by
	A)	Ethephone.	
	B)	Silver nitrate.	
	C)	NaCl.	
	D)	Vipul.	
81.	Tag	colour for packing of certified seed is	
	A)	White.	
	B)	Blue.	
	C)	Yellow.	
	D)	Green.	
82.		grow potato for processing purposes, the erization is	ideal temperature requirement during
	A)	0-6 °C.	
	B)	7-13 °C.	
	C)	14-20 °C.	
	D)	21 -26 °C.	
83.	In c	chrysanthemum flower, ray florets are	type.
	A)	Hermaphrodite.	
	B)	Pistilate.	
	C)	Stamens.	
	D)	None of these	
(17) (A)	(17)	[P.T.O.

(17)

(17) (A)

84.	Which among the following is NOT a classification of inflorescence type of dahlia.
	A) Fimbriated.
	B) Stellar.
	C) Peony.
	D) Thistle.
85.	Some of the noticeable consequences of polyploidy in ornamentals is
	A) Increased heterozygosity.
	B) Heterosis.
	C) Bigger flowers.
	D) All of these.
86.	Variation observed among progeny of plants regenerated from somatic cells cultured
	in vitro is called.
	A) Spontaneous mutations.
	B) Mutations.
	C) Bud sports.
	D) Somaclonal variations.
87.	Sweet peas are.
	A) Self-pollinated.
	B) Cross - pollinated.
	C) Partially cross pollinated.
	D) Partially self - pollinated.
88.	Fruit type of Tendu (Diospyrus melanoxylon Roxb.) is Moderate
	A) Drupe.
	B) Pome.
	C) Berry.
	D) Capsule.
89.	Blood fruit (Haematocarpus validus (Miers.) Bakh. f. ex. Forman). a naturally distributed
	plant species in the northeast region of India belongs to family.
	A) Sapotaceae.
	B) Rosaceae.
	C) Menispermaceae.
	D) Rutaceae.
90.	Which state is the largest producer of large cardamom (Amonum subulatum Roxb)
	A) Sikkim.
	B) Arunachal Pradesh.
	C) West Bengal.
	D) Nagaland.
(17)	(18)

	C)	Lactones.	
	D)	Acetone.	
93.	Whi	ch of the following annonaceous fruit is non - acidic in nature.	
	A)	Custard apple (A. Squamosa).	
	B)	Atemoya (A. atemoya).	
	C)	Sour sop (A. muricata).	
	D)	Bullock's heart (A. reticulata).	
94.	'Tha	ar Malti' is a cultivar of	
	A)	Ber.	
	B)	Aonla.	
	C)	Khirni.	
	D)	Phalsa.	
95.	Mar	ngosteen is termed as 'Energy tablet' owing to its high.	
	A)	Reducing sugar content.	
	B)	Carbohydrate content.	
	C)	Cyanidin - 3 - glucoside.	
	D)	Hexyl acetate content.	
		(10)	[P.T.O.
(17)	(A)	(19)	[1.1.0.

91. Dactylicapnos scandens, commonly known as Yellow Bleeding Heart, derives its name

from its distinctive.

Esters.

Terpenes.

Leaf morphology and texture.

Stem structure and growth pattern.

Fruit shape and colour.

92. Peach like flavour in mango is due to.

Flower shape and colour.

A)

B)

C)

D)

A)

B)

96.	Wha heat	at is the primary disorder in Alphonso mangoes believed to be influenced by convective
	A)	Spongy tissue.
	B)	Black tip.
	C)	Anthracnose.
		Malformation.
	D)	Manormation.
97.	Whi	ch fruit crop is commonly associated with the cultural practice known as 'propping'.
	A)	Mango.
	B)	Pineapple.
	C)	Banana.
	D)	Papaya.
	-,	
98.	Wha	at is the primary training system used for kiwi fruit vines.
	A)	Central leader.
	B)	Tall spindle.
	C)	Spindle bush.
	D)	T-bar trellis.
99.	Hov	w many chilling hours are typically required by low chill apple varieties for optimal
		production.
	A)	50 chilling hours.
	B)	250 chilling hours.
	C)	750 chilling hours.
	D)	1000 chilling hours.
100	Ann	le are sorted into how many grades on the basis of size in the Indian market.
	A)	3 grades.
	B)	4 grades.
	C)	6 grades.
	D)	5 grades.
101.		ch of the following is considered the ideal planting material for propagating apples?
	A)	Runners.
	B)	Slips.
	C)	Suckers.
	D)	Seeds.
(17)	(A)	(20)

102. Wh	2. Which state is the leading producer of Avocados in India.		
A)	Kerala.		
B)	Tamil Nadu.		
C)	Andhra Pradesh.		
D)	Karnataka.		
103. Which of the following fruits primarily rely on bats as their major pollinating agents.			
A)	Cape gooseberry.		
B)	Persimmon.		
C)	Durian.		
D)	Passion fruit		
	ndian conditions, at which stage is date palm typically harvested?		
A)	Doka.		
B)	Dang.		
C)	Tamer.		
D)	Gandora.		
105 Amo	stalous flavrous and found in		
	etalous flowers are found in		
A)	Litchi.		
B)	Apple.		
C)	Mango.		
D)	Grape.		
106. The concept of ball- skin versus bladder effect is observed in which fruit crop.			
A)	Mango.		
B)	Litchi.		
C)	Strawberry.		
D)	Sapota.		
107. The	e flower color of Kasuri methi (Trigonella foenumgraecum) is		
A)	White.		
B)	Yellow.		
C)	Purple.		
D)	Green.		
(15) (1)		[P.T.O.	
(17)(A)	(21)	[1.1.0.	

108.	Whi	ch of the following fruit has the highest tolerance to saline/sodic soils.
	A)	Ber.
	B)	Custard apple.
	C)	Bael.
	D)	Guava.
109.	Whic	ch of the following planting system accommodates maximum number of plants.
	A)	Square.
	B)	Septuplet.
	C)	Quincunx.
	D)	Triangular
110.	High	ner temperature is more conductive for production of in mango
	A)	Male flowers.
	B)	Female flowers.
		Perfect flowers.
	D)	
111.	Bana	ana belongs to the order
	A)	Rosales.
	B)	Rutales.
	C)	Ericales.
	D)	Scitamineae.
112	Rane	ana aphid (<i>Pentalonia nigronervosa</i>) transmit viral infection called.
112.	A)	Bunchy top.
	B)	Curly top.
	C)	Both A and B.
	D)	None of the above.
	2)	
113.	Post	fertilisation in coconut, it takes months for the fruit to mature.
	A)	11 to 12 months.
	B)	6 to 9 months.
	C)	7 to 8 months.
	D)	12 to 14 months.

(22)

(17) (A)

114.	Dwa	arf and tall variety coconuts are and pollinating.		
	A)	Allogamous and autogamous.		
	B)	Autogamous and allogamous.		
	C)	Allogamous and allogamous.		
	D)	Autogamous and autogamous.		
115.	Crov	wn choking in coconut is due to deficiency		
	A)	Magnesium.		
	B)	Calcium.		
	C)	Boron.		
	D)	Calcium and boron.		
116.	Acco	ording to Knight (1980), cultivated pineapples are placed under major groups.		
	A)	3		
	B)	4		
	C)			
	D)			
117. Most serious disease of pineapple is				
		Yellow spot.		
		Heart and root rot.		
		Mealy bug wilt.		
		Leaf spot.		
118.	BPP	series of varieties belongs to crop.		
	A)	Cocoa.		
		Coconut.		
	C)	Chilli.		
	D)	Cashewnut.		
119. Most commonly used method for roasting of cashewnuts is				
	A)	Drum roasting.		
	B)	Oil bath roasting.		
	C)	Steam roasting.		
	D)	Shell roasting.		
120.	Spec	cies of fruit fly not infecting guava is		
	A)	Bactrocera dorsalis.		
	B)	Bactrocera correcta.		
	C)	Bactocera zonata.		
	D)	Bactocera chaetodacus.		

ROUGH WORK



(17) (A)