## **MIZORAM PUBLIC SERVICE COMMISSION**

## TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF GRADE-V OF MIZORAM HORTICULTURE SERVICE UNDER HORTICULTURE DEPARTMENT, GOVERNMENT OF MIZORAM NOVEMBER, 2017

## **TECHNICAL PAPER - II**

Time Allowed: 2 hours Full Marks: 200

All questions carry equal marks of 2 each.

Attempt all questions.

1.	(a)	pungency of Onion is due to Allyl Propyl Disulphide Ca oxalate	` ′	Diallyl Disulphide None of these
2.	-	er ICMR, an average man with vegetarian or n tables per day	on-v	egetarian food habit should consume leafy
	` '	300 g 125 g	` ′	100 g 75 g
3.	The b	pioflavonoides present in garlic which can give	prot	ection against cancer and heart disease is
		Catchins	_	Naringins
	(c)	Quercetin	(d)	Ellagic acid
4.	The t	comato cultivar developed at IARI, resistant to	nem	atode is
	(a)	Pusa Sheetal	(b)	Pusa early Dwarf
	(c)	Sel-120	(d)	Sel-32
5.	Whi	ch of the following cultivar of tomato is resistar	nt to	Cracking
	(a)	Punjab Chhuhara	(b)	Soiux
	(c)	Avinash-2	(d)	Pusa Gaurav
6.	The	family of curry leaf is		
	(a)	Rutaceae	(b)	Moringaceae
	(c)	Martynaceae	(d)	Tillaceae
7.	Scien	ntific name of Lima bean is		
	(a)	Phaseolus vulgaris	(b)	P. coccineus
	(c)	P. lanatus	(d)	P. aculifolius
8.	Phule	e Green is a high yielding cultivar of		
		Bottle gourd	(b)	Water melon
	(c)	Bitter gourd	(d)	Musk melon

9.	The 1	recommended seed rate for water melon is		
	(a)	1.5-2.5 kg	(b)	2.5-3.5 kg
	(c)	3.5-5 kg	(d)	5-10 kg
10.	Cucu	ımber variety Japanese Long Green has introdu	aced	through
		Introduction		Selection
	(c)	Hybridization	(d)	Heterosis Breeding
11.	Musl	k melon variety Pusa Sharbati has been develo	ned	as a cross between
		Monoecious 3 x Durgapura Madhu	-	Hara madhu x Edisto
	` ′	WMR 29 x Hara Madhu	(d)	Kutana x Resistant No. 6
12.	Thes	scientific name of summer squash is		
12.		Cucurbita moschata	(b)	Cucurbita pepo
	` '	Cucurbita maxima	` ′	Cucurbita ficifolia
12	. ,		` ′	ů ů
13.		ch of the cultivar contains richest source of car Arka Suryamukhi		Arka Chandan
	` '	CO-1	` ′	PusaVikas
1.4	( )		(4)	1 000 ( 1110)
14.		seed rate of early season pea is 60-70 kg	(b)	80-90 kg
		100-120 kg	` ′	120-150 kg
4 =		•	` /	C
15.		ch of the following species of Bean is used as a		_
		Cyanopsis tetragonoloba Psophocarpus tetragonoloba	` ′	Dolichos purpureus Phaseolus lunatus
			(u)	1 naseotas tanatas
16.		w vein disease of Okra is transmitted by	(1.)	XXII 1
	` '	Aphids	` ′	White fly
	(6)	Leaf hopper	(a)	All of these
17.		radish roots develop best flavor, texture and si		= -
	` /	5-10° C	` /	10-15° C
	(c)	15-20° C	(d)	20-25° C
18.		Sspot of beet root can be controlled by		
		COC 0.1%	(b)	
	(c)	Thiram 0.2%	(d)	Captaf 0.25%
<b>19</b> .	The s	sowing time for late cultivars of cauliflower is		
		July-August	(b)	August-September
	(c)	September-October	(d)	October-November
20.	Cabb	page cultivar resistant to Black rot is		
	(a)	Golden Acre	(b)	Pride of India
	(c)	Pusa Mukta	(d)	Pusa Drum Head
21.	The	recommended seed rate for Knolkhol is		
	(a)	200-300 g	(b)	400-500 g
	(c)	600-700 g	(d)	800-1000 g

22.	The place of origin of Sweet potato is	(1.)	0 1 1
	(a) North America	` /	South America
	(c) Central America	(a)	Mediterranean region
23.	Potato is a	4.	
	(a) Self pollinated	` ′	Cross pollinated
	(c) Often self pollinated	(a)	None of these
24.	In potato grading, the size of tubers which is in	_	•
	(a) 25-50 g	` ′	50-75 g
	(c) 75-100 g	(d)	None of these
25.	The type of gardens which is usually established is crops to a distant market is	n rural are	eas for supplying a few specialized vegetable
	(a) Kitchen garden	(b)	Market garden
	(c) Truck garden	(d)	Vegetable garden for seed production
26.	The cowpea variety insensitive to day length is	S	
	(a) Pusa dofasli	(b)	Pusa phaguni
	(c) Punjab Barsati	(d)	None of the above
27.	Whiptail in cauliflower is caused by		
	(a) Deficiency of molybdenum	(b)	Excess boron
	(c) Excess molybdenum	(d)	Deficiency of boron
28.	The world leading producer of cut flower is		
	(a) Singapore	(b)	Bangkok
	(c) Japan	(d)	Netherlands
<b>29</b> .	Buddha Jayanti Park is located at		
	(a) Ludhiana	(b)	Chandigarh
	(c) New Delhi	(d)	Bangalore
30.	Floribundas roses have been produced by cross	sing	
	(a) Hybrid Tea x Dwarf Polyantha	_	Hybrid Tea x Climbers
	(c) Hybrid Tea x miniature	(d)	Dwarf Polyantha x miniature
31.	The widely cultivated tropical Orchid is		
	(a) Cymbidium	(b)	Dendrobium
	(c) Vanda	(d)	Arachnis
32.	American Beauty is a cultivar of		
	(a) Rose	(b)	Chrysanthemum
	(c) Birds of paradise	(d)	Gladiolus
33	Calyx splitting of Carnation is due to		
00.	(a) Low temperature	(b)	Low nitrogen
	(c) Low B	` '	All of these
21		. ,	
J4.	In Anthurium, the fading of the spathe colour is  (a) B	(b)	•
	(a) B (c) N	(d)	
	(*) 11	(4)	**

35.	Which of the following is not a method of planting of lawns			
	(a)	Dibbling	(b)	Puddling
	(c)	Turfing	(d)	Bricking
36.	Whic	th of the following is not a Tribe of cactus		
		Pereskieae	(b)	Opuntieae
	(c)	Cereae	` ′	Cereanae
37.	Whic	ch of the following is a rootstock used in Rose	budd <sup>.</sup>	ing
		Rosa bourboniana		Rosa multiflora
	` /	Rosa indica var. odorata	` '	All of these
38		nple of Sympodial orchid is	` /	
30.		Cymbidium	(h)	Angaecum
	` '	Polyrhiza	` '	Vanda
20		•	. ,	
<b>39</b> .		rin tsukuri' is a Japanese style of flower cultu		
	` /	Rose Bonsai		Chrysnathemum Gladiolus
			. ,	Giadiolus
40.		optimum stage of harvesting of Bird of Paradis		
	` '	When first floret is fully open	` '	When lower 3 florets have fully opened
	(c)	When upper 3 florets have fully opened	(d)	None of these
41.	Whic	ch of the following plant cannot be used for Bo	nsai d	levelopment
		Ficus religiosa	` '	Erythrina indica
	(c)	Antirrhinum majus	(d)	Ficus benghalensis
42.	When	re the technique of Bonsai evolved		
	(a)	China	(b)	Japan
	(c)	England	(d)	India
43.	Whi	ch of the following is an example of cactus		
	(a)	Apetina cordifolia	(b)	Aloe fosteri
	(c)	Euphorbia pendula	(d)	Opuntia cylindrica
44.	Tea g	gardens are types of		
	_	English garden	(b)	Japanese garden
	(c)	Mughal garden	(d)	None of these
45.	In Inc	lia, national registration Authority of Roses is l	locate	ed at which of the following Institute
		IARI		NBPGR
	` '	NBRI	` ′	IIHR
46	Gladi	iolus can be propagated through		
то.		Corms and cormells	(b)	Seeds
	` '	Tissue culture	` ′	All of these
47	. ,		. ,	
4/.		ch of the following is not a propagating means of		
		Seed Axillary Bud	` /	Sucker Stem cutting
	(c)	Almai y Duu	(d)	Stem cutting

48.	Sam's pride and Red Corso are the cultivars of		
	(a) Chrysanthemum	(b)	Rose
	(c) Anthurium	(d)	Carnation
49.	The types of orchids which lack green leaves and without roots is called	` '	
	(a) Epiphytes	(b)	Terrestrial
	(c) Lithophytes	(d)	Saprophytes
50	Preconditioning of carnation cut flowers in which of	the fo	allowing solution is done to increase shelf life
50.	(a) Potassium Meta Bisulphide		Sodium Bicarbonate
	(c) Silver Thiosulphate	(d)	
<i>5</i> 1	-	()	
51.	Gladiolus belongs to the family  (a) <i>Iridaceae</i>	(b)	Oleaceae
	(c) Caryophyllaceae	` /	Amaryllidaceae
		(u)	Amaryittaaceae
52.	The scientific name of citronella is	(1.)	
	(a) Cymbopogon winterianus		Cymbopogon flexuosus
	(c) Pogostemon cablin	(a)	None of these
<b>53</b> .	Sarpagandha belongs to the family		
	(a) Asteraceae		Poaceae
	(c) Araceae	(d)	Apocynaceae
54.	Which of the following medicinal plants is used as r	nemo	ory tonic
	(a) Withania somnifera	(b)	Tinospora cordifolia
	(c) Bacopa monnieri	(d)	Rauwolfia serpentina
55.	Pyrethroides, an important insecticide is obtained fr	om w	hich of the following medicinal plants
	(a) Chrysanthemum cinerariaefolium	(b)	Cassia angustifolia
	(c) Plantago ovate	(d)	Catharanthus roseus
<b>56</b> .	The recommended spacing for Opium poppy is		
	(a) $30 \times 30 \text{ cm}$	(b)	60×60 cm
	(c) 90×90 cm	(d)	150×150 cm
57.	Senna belongs to the family		
	(a) Leguminosae	(b)	Plantaginaceae
	(c) Solanaceae	(d)	<u> </u>
58	Alkaloid Vinblastin and Vincristine, which form the	e con	stituents of cancer drugs are present in
30.	(a) Isubgal	(b)	
	(c) Aswagandha	` ′	Periwinkle
<b>5</b> 0		(4)	1 01111 111110
<b>3</b> 9.	The lemon grass is generally propagated by	(h)	Sands
	(a) Suckers	(b) (d)	Seeds Rhizome
	(c) Root slips	` '	
60.	Rusa or Rusha, the popular essential oil is obtained  (a) Vetiver		l Palmarosa
	LAT VEHVET	ını	Paunarosa

(d) Citronella

(c) Lemon grass

<b>61</b> .	In ge	ranium, the first cuttings of leaves is done at		
	(a)	8 months after planting	(b)	12 months after planting
	(c)	16 months after planting	(d)	20 months after planting
<b>62.</b>	The	recommended spacing for <i>Ocimum spp</i> . is		
	(a)	45×45 cm	(b)	60×60 cm
	(c)	75×75 cm	(d)	90×90 cm
<b>63</b> .	Patch	nouli is propagated by		
	(a)	Seeds	(b)	Suckers
	(c)	Cuttings	(d)	Root suckers
64.	The s	scientific name of Bergamot mint is		
	(a)	Mentha piperita	(b)	Mentha spicata
	(c)	Mentha arvensis var. piperascens	(d)	Mentha citrata
<b>65.</b>	Whi	ch of the following is the best planting material	s for	vetiver
	(a)	Slips	(b)	Tillers
	(c)	Cuttings	(d)	Seeds
66.	Whic	ch of the following is used as anti-diarrhoea and	d anti	i-dysentric drug
	(a)	Senna	(b)	Sarpagandha
	(c)	Isubgol	(d)	Pyrethrum
<b>67.</b>	Arka	Upkar is a high yielding clone of		
	(a)	Medicinal yam	(b)	Sarpagandha
	(c)	Ashwagandha	(d)	Fox-glove
68.	_	gar plantation, the aroma comes due to infecti ed by the larvae of a stem borer named	on of	f fungi which generally occurs due to stem
	(a)	Heortia vitessoides	(b)	Zewzera conferta
	(c)	Odioporus longicollis	(d)	Anoplophora versteegi
69.	The b	piting taste of Black pepper is due to		
	(a)	Piperine	(b)	Piperol
	(c)	Piperoresin	(d)	None of these
<b>70.</b>	The	pungency of Ginger is due to		
	(a)	Gingerol	(b)	Gingerine
	(c)	Gingiberine	(d)	None of these
<b>71</b> .	Thep	oungent aromatic flavor of turmeric is due to		
	(a)	Curcumin	(b)	Tumerol
	(c)	Both (a) & (b)	(d)	None of these
<b>72</b> .	Rams	sey and Swaney are important cultivars of		
	(a)	Small cardamom	(b)	Large Cardamom
	(c)	Cinnamom	(d)	Vanilla

<b>73</b> .	The costliest spice in the spice Horizon is		
	(a) Vanilla	(b)	Small cardamom
	(c) Black pepper	(d)	Saffron
74.	Coriander belongs to the family		
	(a) Fabaceae	(b)	Polygonaceae
	(c) Compositae	` '	Apiaceae
75	Trigonellin, an important constituent of which of the f		•
13.	use	OHOW	ring spice, for which it is valued for medicinal
	(a) Coriander	(b)	Cumin
	(c) Fennel	(d)	Fenugreek
76	Fennel is generally harvested at an age of		
, 0.	(a) 90-120 days	(b)	120-150 days
	(c) 150-170 days	(d)	170-180 days
77	•	` '	•
11.	Small cardamom yields an average yield of dried ca (a) 100-200 kg	-	
	(a) 100-200 kg (c) 500-1000 kg	(d)	200-500 kg 1000-2000 kg
	· ,	(u)	1000-2000 kg
<b>78</b> .	Stem gall is an important disease of	4 >	
	(a) Coriander	` ′	Cumin
	(c) Fenugreek	(d)	Black pepper
<b>79.</b>	RZ 209 is an important cultivar of		
	(a) Coriander	(b)	Cumin
	(c) Azwain	(d)	Ginger
80.	The scientific name of clove is		
	(a) Syzigium aromaticum	(b)	Myristica fragrans
	(c) Cinnamomum verum	(d)	Pimenta dioica
81.	Allspice belongs to the family		
	(a) Lauraceae	(b)	Myrtaceae
	(c) Myristicaceae	(d)	Caesalpinaceae
82	Rhizome rot of Ginger is due to		
02.	(a) Pythium aphanidermatum	(b)	Ralstonia solanacearum
	(c) Phylosticta zingiberi	(d)	Fusarium oxysporum
02		(-)	2 353213112 01.136p 01.0112
83.	The recommended seed rate of turmeric is	(l <sub>2</sub> )	250 lrg/lpg
	(a) 25 kg/ha	(b) (d)	250 kg/ha None of these
	(c) 2500 kg/ha	` /	None of these
84.	In India, among all the spices, the largest seed spic		
	(a) Fenugreek	(b)	Coriander
	(c) Cumin	(d)	Fennel

<b>85</b> .	In terms of quality, among the all types of vanilla, the best vanilla is			
	(a)	Bourbon vanilla	(b)	Java vanilla
	(c)	Bourbon like vanilla	(d)	Mexican vanilla
86.	The t	ype of Green house whose roof is semi round	in sh	ape is
	(a)	Ridge and Furrow type	(b)	Quonset type
	(c)	Tunnel type	(d)	Even span type
<b>87.</b>	The t	omato cultivars for green house cultivation sho	uld b	oe e
	(a)	Determinate	(b)	Semi determinate
	(c)	Indeterminate	(d)	All of these
88.	Whic	ch of the following is not true for glass house cu	ltiva	tion of flowers
	(a)	Long life span	(b)	Least affected by weathering
	(c)	Non combustible	(d)	Not resistant to UV rays
<b>89</b> .	Green	nhouse cooling can be achieved by which of the	e foll	owing
	(a)	Roof shading	(b)	Ventilation
	(c)	Evaporative cooling	(d)	All of these
90.	Green	nhouse is based on the principles of		
	(a)	Evaporative cooling	(b)	Greenhouse cooling
	(c)	Greenhouse heating	(d)	Greenhouse effect
91.	The c	lirection in which Greenhouse should be constr	ucted	1 for its maximum efficiency
	(a)	East -West	(b)	North-South
	(c)	East-South	(d)	North-West
92.	The t	hickness of polythene used in greenhouse cons	truct	ion is
	(a)	0.10-0.15 mm	(b)	1-1.5 mm
	(c)	10-15 mm	(d)	100-150 mm
93.	The	country which is number one in Greenhouse ve	getal	ole production is
	(a)	Japan	(b)	USA
	(c)	Netherlands	(d)	Canada
94.	The t	ype of greenhouse which is only about 2 m in is	heigl	nt and constructed by bending bamboo and
	(a)	Gable type	(b)	Ground to Ground type
		Tunnel type	` /	Polyhouse
95.		of the total mushroom production in India, which	h of t	he following spp. comprises more than 90%
	(a)	Agaricus spp.	(b)	Pleurotus spp.
		Volvariella spp.		Auricularia spp.
96.	The f	irst edible mushroom cultivated in India is		
	(a)	Paddy straw mushroom	(b)	Oyster mushroom
	(c)	Shiitake mushroom	(d)	White button mushroom

97.	97. Among the various oyster mushrooms cultivated in India, the most popular and well adapted speci			
	is			
	(a)	Pleurotus sajor caju	(b)	P. flabellatus
	(c)	P. ostreatus	(d)	P. florida
98.	Whic	ch of the following Paddy straw mushroom is cu	ltiva	ted commercially in India
	(a)	Volvariella volvacea	(b)	V. diplasia
	(c)	V. esculenta	(d)	All of these
99.	The s	scientific name of milkey mushrooms		
	(a)	Colocybe indica	(b)	Auricularia polytricha
	(c)	Stropharia ruguso-annulata	(d)	Lentinula edodes
100.	In glo	obal level, the mushroom which ranked second	afte	r button mushroom is
	(a)	Oyster mushrooms	(b)	Paddy straw mushrooms
	(c)	Shitake mushrooms	(d)	Giant mushrooms

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