MIZORAM PUBLIC SERVICE COMMISSION

TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF GRADE-V OF MIZORAM HORTICULTURE SERVICE UNDER GOVERNMENT OF MIZORAM. May, 2014

TECHNICAL SUBJECT PAPER – II

Time Allowed: 2 hours Full Marks: 200

All questions carry equal marks of 2 each.

Attempt all questions.

1.		ornia Wonder is a cultivar of		
	` '	Chilli	` '	Brinjal
	(c)	Tomato	(d)	Capsicum
2.	Ther	nost common mode of propagation in coloca	sia is t	hrough
	(a)	Tissue culture	(b)	Corms
	(c)	Cormels	(d)	Stem cutting
3.	Trop	ical type of carrots is also known as		
	(a)	European	(b)	Asiatic
	(c)	Japanese	(d)	None of these
4.	Whip	otail of cauliflower is due to deficiency of		
		Water	(b)	Molybdenum
	(c)	Boron	(d)	Manganese
5.	The	oungency of chilli is due to		
	-	Oleoresin	(b)	Capsicin
	(c)	Capsixanthin	(d)	Carotene
6.	The	characteristic odour of Garlic is due to		
	(a)	Allyl propyl disulfide	(b)	Diallyl disulfide
		Allin	(d)	None of these
7.	The 1	ycopene pigment production in tomato fruits	drops	off rapidly at a temperature
		below 18°C	-	between 20 to 24°C
	` '	between 25 to 30°C	(d)	above 27°C
8.	'Cole	e slaw' and 'Sauerkraut' are produced from		
•		Cauliflower	(b)	Cabbage
	` '	Broccoli	(d)	Radish
Q	. ,	n Heart is a common physiological disorder:	` '	
٦.		Cucumber		Pointed gourd
	\ u <i>j</i>	Cucuiiioci	(0)	i omica goura

10 .	Gold	en Acre and Pride of India are cultivars of		
	(a)	Cabbage	(b)	Cauliflower
	(c)	Knolkhol	(d)	Broccoli
11.	Vine	cutting and root suckers are propagating mater	ials i	n which of the following crops?
	(a)	Water melon	(b)	Pointed Gourd
	(c)	Spinach	(d)	Ridge Gourd
12 .	Half	slip and full slip are maturity indices in which o	fthe	following vegetables?
	(a)	Water melon	(b)	Musk melon
	(c)	Round melon	(d)	None of these
13.	Wing	ged bean is		
	(a)	Vicia faba	(b)	Phaseolus lunatus
	(c)	Cyamopsis tetragonoloba	(d)	Psophocarpus tetragonolobus
14.	Swee	et potato is commonly propagated by		
	(a)	Tuber	(b)	Vine cutting
	(c)	Root	(d)	None of these
15 .	Prop	er seed germination of bitter gourd will take p	lace a	at a temperature
	(a)	below 8°C	(b)	between 10° and 20°C
	(c)	between 25° and 35°0C	(d)	above 40°C
16 .	The e	edible part of broccoli is known as		
	(a)	Curd	(b)	Knob
	(c)	Head	(d)	Shoot
17 .	'See	d Plot Technique' in potato cultivation was de	veloj	ped in order to
	(a)	avoid aphid problem	(b)	obtain early-maturing crops
	(c)	obtain high-starch contents	(d)	all of these
18.	Black	k Heart disease of potato is due to		
	(a)	High storage temperature	(b)	N deficiency
	(c)	B deficiency	(d)	Chilling injury
19 .	All c	ole crops originated from a wild plant		
	(a)	Brassica oleraceae var. sylvestris	(b)	Brassica oleraceae var. botrytis
	(c)	Brassica oleraceae var. gemmifera	(d)	Brassica oleraceae var. acephala
20 .	Lettu	ce cultivation is done best in cool environmen	t. Hig	gh temperature is not suitable because
	(a)	it promotes seed stalk	(b)	it causes bitter taste of leaves
	(c)	it induces tip-burn injury	(d)	all of these
21.	Wate	rmelon without seeds are		
	(a)	Haploid	(b)	Diploid
	(c)	Triploid	(d)	Tetraploid
22 .	Bloss	som end rot of tomato is due to deficiency of		
	(a)	В	(b)	Mo
	(c)	Mn	(d)	Ca

23.	The edible portion of knolkhol is				
	(a) Curd	(b)	Knob		
	(c) Head	(d)	None of these		
24 .	A garden of naturalistic design in which irregular m	assin	g of the landscape elements predominates is		
	(a) Formal design	(b)	Informal design		
	(c) Picturesque	(d)	Modern design		
25 .	Open spaces decorated with ornamental plants and situated usually on the cross section or junction of		-		
	(a) Boulevard	(b)	Traffic islands		
	(c) Miniature gardens	(d)	Topiaries		
26 .	Following garden type is also known as 'alpine gar	den'.			
	(a) Water garden	(b)	Terrace garden		
	(c) Sunken garden	(d)	Rock garden		
27.	A sophisticated assymetrical design of flower arran	ngeme	ent that has an outline of an 'S' is called		
	(a) Circular	(b)	Radiating		
	(c) Crescent	(d)	Hogarthian curve		
28.	The Japanese flower arrangement called 'Ikebana'	litera	lly means		
	(a) Flowers kept alive	(b)	Expressing nature aesthetically		
	(c) Sky, earth and mankind	(d)	Well balanced expression		
29 .	In bonsai culture, repotting is usually done in differ	ent bo	oxes in the following order		
	(a) training boxes, growing boxes and final presentation pot.				
	(b) presentation boxes, growing boxes and training	ing bo	oxes.		
	(c) growing boxes, training boxes and final prese	entati	on pot.		
	(d) growing boxes, presentation pot and training boxes.				
30.	30 . The spikes of cut flowers like gladiolus, antirrhinum, etc are sensitive tobending and hence must be stored and transported in upright position.				
	(a) Phototropic	(b)	Geotropic		
	(c) Chemical induced	(d)	Metal affected		
31.	Fading of Spathe colour in Anthurium is due to def	icien	cy of		
	(a) N	(b)	P		
	(c) Mg	(d)	Ca		
32 .	Seeding, turfing, plastering and dibbling are the mo	st cor	nmon methods of planting		
	(a) Plants in rockery	(b)	Grasses in lawns		
	(c) Lotuses in water gardens	(d)	Climbers in walls		
33.	Growing of indoor plants and cacti and succulents	in a c	covered glass-case is known as		
	(a) Moribana	(b)	Pergola		
	(c) Pot-pourri	(d)	Terrariums		
34.	Which one of the following is paired correctly?				
	(a) Palms – flowers and seeds; Ferns – spores;	Cyca	ds - cones		
	(b) Palms – spores; Ferns – cones; Cycads – flo	wers	and seeds		

(c) Palms – cones; Ferns – spores; Cycads – flowers and seeds
 (d) Palms – flowers and seeds; Ferns – cones; Cycads - spores

35 .	Calyx splitting is a major physiological disorder in which of the following crops?			
	(a) Ch	nrysanthemum	(b)	Carnation
	(c) Ro	ose	(d)	Anthurium
36 .	The maj	or floriculture product exported from India	comp	prises of
	(a) Fr	esh cut flowers	(b)	Dry flowers
	(c) Li	ve plants	(d)	Fresh bulbs
37.		orption of chemical solution containing sugarly beneficial for flowers destined for long po		
	(a) Co	onditioning	(b)	Bud-opening
	(c) Pu	llsing	(d)	Bunching
38.	Which o	of the following is the most widely grown On	rchid	genus in north-eastern Himalayan region?
	(a) De	endrobium	(b)	Cymbidium
	(c) Or	ncidium	(d)	Cattleya
39 .	The mos	st popular method of multiplying roses is thro	ough	
	(a) Se	eed propagation	(b)	Micro-propagation
	(c) T-1	budding	(d)	Root cutting
40 .	Which o	of the following is a cause of deterioration o	fhar	vested flowers?
	(a) Ba	acterial and fungal infections	(b)	Plugging of xylem vessels
	(c) M	echanical injury	(d)	All of these
41.	orc	chids have horizontal growth habit and the r	new g	growth develops from rhizomes.
	(a) M	onopodial	(b)	Sympodial
	(c) Ps	eudomonopodials	(d)	None of these
42 .	Which o	of the following is not a method of precooling	g of f	flowers?
	(a) Fo	orced air cooling	(b)	Hydrocooling
	(c) Va	cuum cooling	(d)	Chemical cooling
43.	Who is k	known as the father of modern medicines?		
	(a) Sa	muel	(b)	Pellatier
	(c) Hi	ppocratus	(d)	Sertuner
44.	Source o	of costus oil is		
	(a) <i>Sa</i>	ussurea costus	(b)	Lemon grass
	(c) Ci	tronella	(d)	Nardostachys jatamansi
45 .	The plan	nt also known as Indian ginseng is		
	(a) <i>No</i>	ardostachys jatamansi	(b)	Withania somnifera
	(c) <i>Ra</i>	auvolfia serpentina	(d)	None of these
46.		f following plant or plant parts collected fr Appendix - I	om v	wild is not permitted since it is included in
	(a) <i>Sa</i>	ussurea costus	(b)	Dioscorea deltoidea
	(c) <i>Al</i>	oe barbadensis	(d)	Gnetum montanum
47 .	The plan	nt portion of commercial importance in Wit.	hani	a somnifera is the
	(a) Le	eaf	(b)	Stem
	(c) Be	erry	(d)	Roots

48.		emulsion of this plant in water is an integral part of control vomiting in children.	for m	naking gripe water used to improve digestion
		Guggal	(b)	Senna
	(c)	Dill or sowa	` ′	Liquorice
49.	Isabs	gol (Plantago sp.) is predominantly grown as ε	` ′	•
		Warm season		Cold season
	` /	Dry area	` /	High humidity
50.	The	perry pulp of following plant is rich in solasodine a peroids.	` /	•
	(a)	Piper longum	(b)	Solanum viarum
	(c)	Withania somnifera	(d)	Plantago ovata
51.		crop is grown under an annually renewable lic signated areas of Madhya Pradesh, Rajasthan		•
	(a)	Asgand	(b)	Rauvolfia
	(c)	Palmarosa oil grass	(d)	Opium poppy
52 .	Com	mercial propagation for Periwinkle is mainly th	rougl	ı
	(a)	Seed	(b)	Stem cutting
	(c)	Root cutting	(d)	Tissue-culture
53 .	The	economic part of Rauvolfia serpentina contain	ninga	at least 55 alkaloids is
	(a)	Leaves	(b)	Stem
	(c)	Roots	(d)	Seeds
54 .	The a	absolute extracted through solvent extraction of	of Fre	ench jasmine flower is traded as
	(a)	Bricks	(b)	Concrete
	(c)	Oils	(d)	Powder
55 .	The .	of Indian basil is used in flavouring of	food	s, bakery products and beverages
	(a)	Seeds	(b)	Roots
	(c)	Oil	(d)	Bark
56.		eaves ofcontain an aromatic oil, v 80% citral.	vith a	characteristic lemon-like odour, containing
	(a)	Apium graveolens	(b)	Ocimum basilicum
	(c)	Cymbopogon winterianus	(d)	Cymbopogon flexuosus
5 7.	The	nost popular variety of among India	n far	mers is Shiwalik.
	(a)	Lemon grass	(b)	Mint
	(c)	Citronella	(d)	Celery
58 .		is cultivated for its highly fragrant leaves by odour with good blending properties.	which	n contain a very sweet smelling oil of lasting
	(a)	Patchouli	(b)	Chamomile
	(c)	Kewada	(d)	Vetiver
59 .	The 1	argest producer, consumer and exporter of spi	ices i	n the world is
	(a)	Sri Lanka	(b)	India
	(c)	Pakistan	(d)	Afghanistan

60.	Following plant is know as 'queen of	spices'	
	(a) Black pepper	(b)	Large cardamom
	(c) Small cardamom	(d)	Coriander
61.	The major export destination of ginge	r from NE India is	
	(a) Myanmar	(b)	Bangladesh
	(c) China	(d)	Thailand
62 .	The berries of black pepper mature as	nd become ready for	or harvesting in
	(a) 60 to 90 days	(b)	100 to 150 days
	(c) 180 to 200 days	(d)	210 to 250 days
63 .	Commercial propagation of large card	amom is through	
	(a) Seeds	(b)	Suckers
	(c) Stem cuttings	(d)	Air layering
64 .	'Navashree' and 'Nithyashree' are con	mmercial varieties	of
	(a) Cinnamon	(b)	Betelvine
	(c) Fenugreek	(d)	Nutmeg
65 .	The plant part of commercial value in	Clove is the dried,	aromatic and fully grown
	(a) seeds	(b)	unopened flower buds
	(c) opened flowers	(d)	fully ripe fruits
66.	The seeds of coriander should be hard	vested when	
	(a) seeds are fully dried	(b)	50% of the seeds dry up
	(c) entire seeds turn yellow	(d)	50% seeds turn yellow
67 .	The alkaloid responsible for its biting	g taste of Black pep	pper is
	(a) Piperine	(b)	Oleoresin
	(c) Curcumin	(d)	Tumerol
68 .	Colouring and polishing are two impo	ortant post harvest o	operations in which of the following spices?
	(a) Black pepper	(b)	Turmeric
	(c) Vanilla	(d)	Betel Vine
69 .	The most widely cultivated Chilli type	in Mizoram is	
	(a) Red pepper	(b)	Naga king chilli
	(c) Sweet pepper	(d)	Bird-eye chilli
70 .	The costliest spice in the spice horizon	n is	
	(a) Saffron	(b)	Vanilla
	(c) Small cardamom	(d)	None of these
71 .	Rajendra Swathi is an improved varie	ety of	
	(a) Cumin	(b)	Fenugreek
	(c) Fennel	(d)	Coriander
72 .	Bleaching is an important operation for	ollowed in	
	(a) Black pepper	(b)	Betel vine
	(c) Fennel	(d)	Ginger
73 .	Trashing is an important operation in t	he cultivation of	
	(a) Cardamom	(b)	Clove

(d) Black pepper

(c) Turmeric

74 .	Whi	ch of the following is prepared after removing	outei	pericarp of black pepper berries?
	(a)	White pepper	(b)	Brown pepper
	(c)	Green pepper	(d)	Red pepper
75 .	The	main disadvantage of using glass house as a gre	enho	ouse is
	(a)	highly affected by weather fluctuations		
	(b)	it have a short life span		
	(c)	it requires regular cleaning to maintain maximu	ım liş	ght transmission
	(d)	all of these		
76 .		ardless of the basic design, greenhouse mus structed light during the winter months	t rec	eive a minimum ofhours of
	(a)	3 to 4	(b)	5 to 6
	(c)	7 to 8	(d)	10 to 11
77.		y-rooting cuttings are kept alive for a long periodic from dessication, through	iod o	f time, giving them a chance to root before
	(a)	Hot beds	(b)	Cold frames
	(c)	Net houses	(d)	Intermittent mist
78.	The 1	temperatures inside greenhouses are	the a	mbient temperature.
	(a)	lesser than	(b)	higher than
	(c)	similar to	(d)	cannot be specified
79 .		is initiated by the National Horticulture Board, is and demand in different places	it hel	ps to decide the confinement according to its
	(a)	Market bulletin	(b)	Co-operative organization
	(c)	Market survey	(d)	Market intelligence information
80.		xible pouch capable of withstanding autoclavab acked and sealed inside them	le ter	nperature (about 120°C) when food products
	(a)	Retortable pouches	(b)	Aseptic package
	(c)	Tetra packs	(d)	Polyethylene
81 .	In G	reen House, the most suitable cladding materia	l is po	olythene of thickness
	(a)	0.10-0.15 mm	(b)	10-15 mm
	(c)	2.0-3.0 mm	(d)	None of these
82 .	Forc	ing of plants to flower in a particular flush is do	ne m	ainly to
	(a)	increase seed production	(b)	promote vegetative growth
	(c)	get good quality fruits	(d)	avoid incidence of pests
83.	High	production in protected cultivation is due to		
	(a)	high photosynthetic efficiency	(b)	high temperature
	(c)	high oxygen level	(d)	all of these
84.	The	following type of irrigation is suitable for undula	ating	topography and also popular in greenhouses
	(a)	Sprinkler method	(b)	Check basin system
	(c)	Furrow method	(d)	Flooding
85 .	The	orincipal nutrient applied through fertigation in	green	thouse cultivation is
	-	Nitrogen and sulphur	_	Nitrogen and potassium

 $(d) \ \ Phosphorus \ and \ sulphur$

(c) Phosphorus and potassium

86 .	Grow	vth regulator commonly used for fruit thinning i	.S			
	(a)	IAA	(b)	GA		
	(c)	Ethylene	(d)	NAA		
87 .		of the total mushroom production in India, whicuction?	h of t	he following spp. comprises more than 90%		
	(a)	Agaricus spp.	(b)	Pleurotus spp.		
	(b)	Volvariella spp.	(d)	Auricularia spp.		
88 .	Musl	nroom spawn is a pure mushroomgr	rowir	ng on sterilized grain medium.		
	(a)	Spore	(b)	Hypha		
	(c)	Mycelium	(d)	Seed		
89 .	The l	Directorate of Mushroom Research (ICAR) is	situa	ated in		
	(a)	Shimla	(b)	Solan		
	(c)	Delhi	(d)	Shillong		
90.	If but	tton mushrooms are allowed to grow further t vn as	to rev	real pink gills due to ruptured veil, they are		
	(a)	Cup	(b)	Saucer		
	(c)	Flower	(d)	Buds		
91.	Pleu	rotus spp. is a type of				
	(a)	Shiitake mushroom	(b)	Paddy straw mushroom		
	(c)	Oyster mushroom	(d)	Milky mushroom		
92 .	Lenti	inula edodes, a culinary medicinal mushroom	is			
	(a)	Shiitake mushroom	(b)	Paddy straw mushroom		
	(c)	Oyster mushroom	(d)	Milky mushroom		
93 .	Then	nushroom characterized by a milky large spore	ophor	re and having delicious flavour is		
	(a)	Pleurotus spp.	(b)	Colocybe indica		
	(c)	Lentinula edodes	(d)	Volvariella volvacea		
94.	The f	first edible mushroom cultivated in India was				
	(a)	Paddy straw mushroom	(b)	Oyster mushroom		
	(c)	Shiitake mushroom	(d)	White button mushroom		
95 .	Yello	ow mould disease of mushrooms is caused by				
	(a)	Myceliophthora lutea	(b)	Mycogone perniciosa		
	(c)	Verticillium fungicola	(d)	Cladobotrym dendroides		
96.	Musl	nroom is specially recommended food for diab	etic p	patients because of		
	(a)	low fat and low protein content				
	(b)	(b) low calorific food with no cholesterol and no starch				
	` '	good source of vitamins but low in minerals				
	(d)	low fibre and high sodium contents				
97 .	The t	emperature requirement for cultivation of oyst	er mu	ıshroom is		
	` ′	16° to 20°C	` /	25° to 30°C		
	(c)	28° to 34°C	(d)	32° to 38°C		

	(a)	PDA	(b)	Sucrose
	(c)	Na Benzoate	(d)	MS media
99.	The r	mushroomis resistant to all the known hari.	musł	nroom viruses and to nematode Apenchoides
	(a)	Agaricus bisporus	(b)	Agaricus bitorquis
	(c)	Pleuratus ostreatus	(d)	Pleuratus florida
100.	The g	green mould disease of mushroom caused by	Trich	noderma spp. can be controlled by
	(a)	proper pasteurization	(b)	fungicidal sprays
	(c)	conditioning of compost	(d)	all of these

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