MIZORAM PUBLIC SERVICE COMMISSION

Competitive Examinations for Recruitment to the post of Jr. Grade of Mizoram Horticulture Service

UNDER HORTICULTURE DEPARTMENT, GOVERNMENT OF MIZORAM. OCTOBER, 2023

TECHNICAL SUBJECT PAPER-II

		carry equal mar empt all questior	•
1. Whip tai	il of cauliflower occurs due to	deficiency of	
(a) Bo	oron	(b)	Molybdenum
(c) Ni	itrogen	(d)	Potassium
2. Which o loam?	f the following vegetable crop	is adaptable to a w	ide range of soils from sandy loam to clayey
(a) La	dy's finger	(b)	Pumpkin
(c) Bo	ottle gourd .	(d)	Cucumber
3. A variety	y of potato which is popularly	used for making p	potato chips is
(a) Ku	ıfri Jyoti	(b)	Kufri Sindoori
(c) Ku	ıfri Chipsona	(d)	Kufri Chandramukhi
4. This var	iety of tomato is suitable for to	mato juice prepar	ation.
(a) Ar	ka Vikas	(b)	Brinjal Marglobe
(c) Ra	ijni	(d)	Vaishali
5. Brinjal c	an be harvested at	_days after transp	lanting.
(a) 45	-50	(b)	55-60
(c) 80	-90	(d)	90-120
6. Seed rate	e for cucumber is	for one hectare.	
(a) 0.5	5 kg	(b)	1.0 kg
(c) 2.5	5 kg	(d)	4.5 kg
7. Carrot ca	an be grown throughout the ye	ear at an elevation	with assured irrigation.
(a) be	low 1000 metres	(b)	800 - 1000 metres
(a) 10	00 - 1500 metres	(4)	above 1500 metres

(b) 10 cm

(d) 30 cm

(a) 5 cm

(c) 20 cm

9.	In Pe	as cultivation, staking of the plant is ideally d	one o	n the	after sowing seeds.
	(a)	15 th day	(b)	30th day	
	(c)	45 th day	(d)	60th day	
10.		ation should be given at regular interval because its of	ifdo	ne after a long dry	spell, it results in cracking
	(a)	cucumber	` ′	watermelon	
	(c)	tomato	(d)	pumpkin	
11.	Chov	v chow requires a well drainedsoi	l for s	successful cultiva	ation.
	(a)	acidic	` ′	alkaline	
	(c)	neutral	(d)	salty	
12.	Bush	type of Lab lab or Dolichos bean can be grow	vn du	ring	
	(a)	November to January	(b)	March to April	
	(c)	July to August	(d)	throughout the y	ear
13.		critical period for weed competition in potato of ld be kept weed-free during that period.	cultiv	ation is	_ of planting and the field
	(a)	15 to 30 days	(b)	upto 60 days	
	(c)	60 to 90 days	(d)	90 to 120 days	
14.	Spina	ach is a crop.			
	(a)	short day	(b)	long night	
	(c)	long day ·	(d)	day neutral	
15.	For le	ong distance market, Tomatoes are harvested	at a s	stage of	
	(a)	mature green	(b)	breaker stage	
	(c)	vine ripe	(d)	red ripe	
16.	The i	deal weight of potato seed tuber is			
		10-20 grams		20-40 grams	
	(c)	30-50 grams	(d)	40-50 grams	
17.		are ready for harvest when at least half	the o	nions in the field	have their tops fallen over
	(a)	Dry onions		Spring onions	•
	(c)	Green onions	(d)	Calcot	
18.	Bt br	injal was developed to be resistant against			
		Bacterial wilt	(b)	Jassids	
	` ,	Nematodes	(d)	Fruit and shoot	borer
19.	Seed	plot technique is related to which of the follow	wing	crop?	
		Tomato	_	Potato	
	(c)	Brinjal	` ′	Pumpkin	
20	• •	crops are predominantly	. ,	_	
∠U.		Dioecious	(b)	Self pollinated	
	()	Cross pollinated	, .	Often cross poll	inated
	(-)	4	` '	•	

21.	Tip b	ourn of lettuce can be rectified by applying		
	(a)	calcium chloride	(b)	molybdenum
	(c)	magnesium sulphate	(d)	carbendazim
22.	Photo	operiodic control is an essential consideration f	or cu	ltivation of
	(a)	Orchids	(b)	Rose
	(c)	Chrysanthemum	(d)	Bird of paradise
23.	Whic	ch of the following flower crop is suitable for the le	east c	apital expensive open field flower cultivation.
	(a)	Gladiolus	(b)	Anthurium
	(c)	Carnation	(d)	Gerbera
24.		ng the following, the most important concept t selection and yield must be	o kee	ep in mind while growing cut flowers is that
	(a)	climate driven	(b)	quality driven
	(c)	market driven	(d)	production driven.
25.	Whic	ch of the following does not apply in case of con	nmei	rcial floriculture?
	(a)	The market is developing and expecting a bla	st gro	owth
	(b)	There are both regular and seasonal demand		
	(c)	Duration for cultivation is longer in comparison	on to	field crops
	(d)	Maximum utilization of land		
26.	More	than 50% of the export oriented floriculture u	inits	in India are based in the
	(a)	North Eastern zone	(b)	East zone
	(c)	South zone	(d)	West zone
27.	Seed	propagation is hardly possible in orchids due	to	
	(a)	Seed coats impermeable to water	(b)	Chilling or low temperature requirement
	(c)	Seed coats impermeable to oxygen	(d)	Immaturity of the embryo
28.	The r	nost common physiological disorder found in c	arna	tion flower is
	(a)	red rust	(b)	blasting of flower buds
	(c)	calyx splitting	(d)	leaf spot
29.	This	is considered to be the best embedding materia	ıl for	drying flower
	(a)	Borax	(b)	Silica gel
	(c)	White sand	(d)	Glycerine
30.	The f	full form of 8-HQS, commonly used in pulsing s	soluti	ion, is
	(a)	8-heteroquinine sulphate	(b)	8-heteroquinine sodium
	(c)	8-hydroxyquinoline sucrose	(d)	8-hydroxyquinoline sulfate
31.	Plant	s like ferns, anthuriums and most of the foliage	plan	its needlight intensity
	(a)	High	(b)	Low
	(c)	moderate	(d)	ample sunlight
32.	The I	kebana style which is arranged in a shallow co	ntain	ner with a needle point holder is
	(a)	Bonsai	(b)	Moribana
	(c)	Nageire	(d)	Hikae

Whic	ch of the following is an example of symmetric	al flor	al arrangement design?
(a)	Right triangle	(b)	Round
(c)	Crescent	(d)	Hogarth curve
Train	ing plants into three-dimensional ornamental t	forms	, such as animals, is termed as
(a)	Espalier	(b)	Bonsai
(c)	Topiary	(d)	Arboretum
To m	ake the living area of a landscape appear large	er, a d	esigner should include plants that feature
(a)	Warm coloured flowers such as red, yellow a	and o	ranges
(b)	Cool coloured flowers such as blues, lavende	ers an	id purple
(c)	All white flowers		
(d)	A combination of warm and cool colours		
Whic	ch of the following is a cool-season grass?		
(a)	Carpet grass	(b)	Bermuda grass
(c)	St. Augustine grass	(d)	Kentucky bluegrass
Bons	sai is a Japanese word meaning		
(a)	Dwarf plant	(b)	Tray planting
(c)	Clay planting	(d)	Wire planting
Repo	otting of bonsai for evergreens like pines and ju	unipe	rs are done in
(a)	Every year	(b)	1 - 2 years
(c)	3-5 years .	(d)	After 10 years
Plant	s most suitable for rock gardens include		
(a)	Aquatic plants	(b)	Alpine plants
(c)	Cactus	(d)	Climbing plants
The J	Japanese gardens are example of this style of g	gardei	ning.
(a)	Formal style	(b)	Informal style
(c)	Free style	(d)	Water garden
Whic	ch among the following is not a feature of form	al styl	le of gardening
(a)	Symmetrical	(b)	Geometric designs
(c)	Straight roads	(d)	Naturalistic design
Reco	mmendation for Anthurium cultivation is		_ shade.
(a)	50 %	(b)	60 - 70 %
(c)	75 - 80 %	(d)	90 %
The s	stem of cut flowers having milky exudates sho	uld be	e treated like this
(a)	Cut stem and the end should be burnt in flam	e for	few seconds
(b)	Plug the stem with cotton wool		
(c)	Cut stem at sharp angle and immediately place	ce in v	water
(d)	Stem end split and placed in warm water		
The	oil of citronella is obtained from distillation of		
(a)	freshly harvested leaves	(b)	dried leaves
(c)	roots	(d)	stem
	(a) (c) Trair (a) (c) To m (a) (b) (c) (d) Whice (a) (c) Report (a) (c) The 3 (c) Whice (a) (c) The 3 (c) (d) The 3 (d) (f) The 3 (f)	(a) Right triangle (c) Crescent Training plants into three-dimensional ornamental false (a) Espalier (c) Topiary To make the living area of a landscape appear large (a) Warm coloured flowers such as red, yellow a (b) Cool coloured flowers such as blues, lavende (c) All white flowers (d) A combination of warm and cool colours Which of the following is a cool-season grass? (a) Carpet grass (c) St. Augustine grass Bonsai is a Japanese word meaning (a) Dwarf plant (c) Clay planting Repotting of bonsai for evergreens like pines and ju (a) Every year (c) 3 – 5 years Plants most suitable for rock gardens include (a) Aquatic plants (c) Cactus The Japanese gardens are example of this style of ganger (a) Formal style (b) Free style Which among the following is not a feature of formation (a) Symmetrical (c) Straight roads Recommendation for Anthurium cultivation is	(c) Crescent (d) Training plants into three-dimensional ornamental forms (a) Espalier (b) (c) Topiary (d) To make the living area of a landscape appear larger, a d (a) Warm coloured flowers such as red, yellow and of (b) Cool coloured flowers such as blues, lavenders and (c) All white flowers (d) A combination of warm and cool colours Which of the following is a cool-season grass? (a) Carpet grass (b) (c) St. Augustine grass (d) Bonsai is a Japanese word meaning (a) Dwarf plant (b) (c) Clay planting (d) Repotting of bonsai for evergreens like pines and junipe (a) Every year (b) (c) 3 - 5 years (d) Plants most suitable for rock gardens include (a) Aquatic plants (b) (c) Cactus (d) The Japanese gardens are example of this style of garder (a) Formal style (b) (b) Free style (d) Which among the following is not a feature of formal style (a) Symmetrical (b) (b) Co Straight roads (d) Recommendation for Anthurium cultivation is (a) 50 % (b) (b) Co 75 - 80 % (d) The stem of cut flowers having milky exudates should be done of the stem of cut flowers having milky exudates should be considered and placed in warm water The oil of citronella is obtained from distillation of (a) freshly harvested leaves (b)

45.	For c	optimum growth, vetiver plants require		•
	(a)	mild summer and cold winter	(b)	dry and cool climate
	(c)	protection from sunlight	(d)	plenty of sunlight
46.	Patcl	houli is propagated by		
	(a)	seeds	(b)	leaf cutting
	(c)	stem cuttings	(d)	layering
47.	Majo	or constituent of jasmine oil is		
	•	Benzyl acetate	(b)	Citronellol
	(c)	Isohytol	(d)	Eugenol
48.	The 1	latex of opium poppy is obtained by making ir	ncisio	n on the
		leaf		stem
	` '	capsule wall	` ,	flower stalk
10		lsion in water of this plant is an integral part for	, ,	
77.		ntrol vomiting in children.	inani	ng gripewater used to improve digestion and
	(a)	Liqorice	(b)	Khasi kateri
	(c)	Isabgol	(d)	Dill
50.	With	ania somnifera is a pantropic native medic	inal 1	plant growing all over north-western and
		parts of India.		g
	(a)	Eastern	(b)	Southern
	(c)	North-eastern .	(d)	Central
51.	The	of Piper longum is the commercia	ally in	nportant part of the plant.
	(a)	unripe female spikes	(b)	ripe male spikes
	(c)	root bark	(d)	stem
52.	The	root of this plant contains about 55 alkaloids	inclu	ding reserpine which is pharmacologically
	impo	rtant.		
	(a)	Rauvolfia serpentina		Cassia angustifolia
	(c)	Catharanthus roseus	(d)	Solanum viarum
53.	For n	naximum oil and menthol content, Mint shou	ld be	harvested on a
	(a)	rainy day	(b)	cool cloudy day
	(c)	dry sunny day	(d)	early morning
54.	Rhod	linol, and expensive perfumery compound is o	btain	ed from
	(a)	Rose oil	(b)	Geranium oil
	(c)	Jasmine oil	(d)	Wild mint oil
55.	Rosm	narinus officinalis belongs to family		
		Lamiaceae	(b)	Poaceae
	(c)	Asteraceae	(d)	Geraniaceae
56.	The t	ype of eucalyptus essential oil used for childre	en and	l infants is
•		Eucalyptus alba		Eucalyptus radiata
		Eucalyntus globulus		Eucalyptus abdita

57.	Ceylo	on citronella oil obtained from-				
	(a)	Cymbopogon winterianus	(b)	Cymbopogon nardus		
	(c)	Cymbopogon flexuosus	(d)	Corymbia citriodora		
58.	. Rheum emodi is used in					
	(a)	Toothache and sore throat	(b)	Purgative, laxative and tonic		
	(c)	Skin ailments	(d)	Septic wounds		
59.	Betel	vine cannot tolerate this kind of soil				
	(a)	Acidic and neutral	(b)	Clay loam		
	(c)	Saline and alkaline	(d)	Well drained fertile		
60.		ch spice crop is regarded as 'queen of spices' ov ragrance?	wing t	to many medicinal properties and great taste		
	(a)	Black pepper	(b)	Turmeric		
	(c)	Cardamom	(d)	Cloves		
61.	The f	following quantity of seed rhizome is enough to	o plar	nt one hectare of ginger		
	(a)	10 kg	(b)	100 kg		
	(c)	500 kg	(d)	1500 to 1800 kg		
62.	The p	propagating material for Black pepper is				
	(a)	seeds	(b)	runner shoots		
	(c)	root cuttings	(d)	terminal shoots		
63.	Clov	e of commerce is the dried aromatic, fully gro	wn_	·		
	(a)	fully open flower	(b)	unopened flower buds		
	(c)	axillary buds of the stem	(d)	leafaxils		
64.	Pung	ency in chilli is due to the presence of				
	(a)	Capsaicin	(b)	Capxanthin		
	(c)	Carotenoids	(d)	Theanine		
65.	Coria	ander seeds are harvested when				
	(a)	50% seeds turn yellow	(b)	all the seeds turn yellow		
	(c)	the leaves turn yellow	(d)	the plant dries off		
66.	Fenn	el seed rate for direct sowing is				
	(a)	1 - 2 kg/ha	` ′	3 - 4 kg/ha		
	(c)	9 - 12 kg/ha	(d)	15 - 16 kg/ha		
67.	The l	argest producer of dry ginger in the world is				
	(a)	China	(b)	India		
	` '	Philipines	` ′	Sri Lanka		
68.	The p	process of boiling fresh turmeric rhizome in w	ater a	nd drying in the sun, is known as		
	(a)	polishing	(b)	colouring		
	(c)	drying	(d)	curing		
69.			curci	umin content and has very good commercial		
	value		/1 N	7.4.0/		
	` ′	5.5 %	. ,	7.4 %		
	(c)	9.3 %	(a)	12 %		

		- 7 -		
70.	. Blea	ching of betelvine leaves are done by successi	ve he	at treatment at
		40 - 50°C for 6 - 8 hours		40 - 50°C for 1 - 2 hours
	` '	60 - 70°C for 6 - 8 hours	` ,	60 - 70°C for 1 - 2 hours
71.	Idea	l climate for turmeric cultivation is		
	(a)	warm, humid climate with rainfall 1500 mm	(b)	dry and hot climate
	(c)	dry and cool climate	(d)	cool summer and mild winter
72.	Cum	in crop is not suitable in areas with	_ part	cicularly after flowering period.
	(a)	cool and dry climate	(b)	high humidity and frequent rains
	(c)	saline soils	(d)	no irrigation
73.		e Northern hemisphere, a greenhouse should petter illumination and protection from northerly		
	(a)	North	(b)	East
	(c)	West	(d)	South
74.		greenhouses have superior solar transner sunshine levels.	nissio	n properties, thus suitable for places having
	(a)	Plastic	(b)	Glass
	(c)	Fibreglass	(d)	Polycarbonate
75.	whil	leads to toxicity of micronutrients a e a causes deficiency of micronutr	ients.	
		low media pH ($<$ 5.0); high pH ($>$ 7.5)		
	(c)	high pH (>7.5); low media pH (<5.0)	(d)	high pH (>7.5); neutral pH
76.	Thes	e are the most suitable kind of fertilizer for use	in gr	eenhouse fertigation.
	(a)	Dry fertilizers	(b)	Slow release fertilizers
	(c)	Liquid fertilizers	(d)	Biofertilizers
77.	The	most common problem among the following	g, in g	greenhouse micro-irrigation system is the
	(a)	emitter plugging	(b)	chemical precipitation
	(c)	slime buildup in clean water	(d)	use of poor quality water
78.	The	earliest forms of greenhouses are made of this	mate	rial.
	(a)	shade net	(b)	polyethylene
	(c)	natural fibres	(d)	glass
79.	The j	potassium source that should be avoided for inj	ectio	n into drip irrigation systems in greenhouse,
	(a)	Potassium chloride	(b)	Potassium nitrate
	(c)	Potassium sulphate	(d)	Potassium phosphate
80.	Gree	nhouse media which are soilless mixes have lov	ver nı	atrient holding capacity and therefore require
	(a)	more quantity of fertilizer per dose	(b)	more frequent fertilizer application.
	(c)	less amount of fertilizer application	(d)	only soluble fertilizer for their nutrient supplement
				•

81.	Whic	ch of the following is not a case with greenhous	e cult	ivation?
	(a)	extended growing season	(b)	better protection against adverse weather conditions
	(c)	a wide variety of plants can be grown	(d)	crops have greater chance of pollination
82.	-	part of the greenhouse structure that collects a evated level between two spans.	nd dr	ains rainwater and snow which is placed at
	(a)	Column	(b)	Gutter
	(c)	Purlin	(d)	Ridge
83.		nfectant solution such as is general ne pathogens from the personnel entering the grant g		
	(a)	Potassium permanganate	(b)	Methyl bromide
	(c)	Formaldehyde	(d)	Methanol
84.	Whic	ch of the following characteristics is not ideal for	or gre	enhouse media?
	(a)	well drained but with sufficient water holding	capa	city
	(b)	compact soil with good nutrient holding capa	city	
	(c)	free from pest and diseases		
	(d)	rich in organic matter		
85.	Whic	ch among the following fruit crops is most suita	ible f	or protected cultivation?
	(a)	Pineapple	(b)	Banana
	(c)	Strawberry	(d)	Kiwifruit
86.	Use	of greenhouse technology started in India initia	ally fo	or research purpose in the year.
		1970's		1980's
	(c)	1990's	(d)	2000's
87.	Prote	ected structure protects the plants against		
	(a)	only biotic stress	(b)	only abiotic stress
		biotic and abiotic stress	(d)	water stress
88.	Wha	t is the ideal ratio of width and length in a natur	ally v	ventilated polyhouse?
		40:60		20:10
	` ′	15:25	(d)	20:80
89.	The l	kind of crops more suitable for cultivation in pa	rotect	ed environment is
		cross pollinated varieties		self pollinated varieties
	` ,	heavy feeder plants	` ′	crops resistant to drought
90.	Wind	lbreaks for greenhouse should be kept in the _		side because winds coming from that
, ,,		tion are generally the strongest.	,11.12	
	(a)	North	(b)	East
	(c)	West	(d)	South
91.	Musl	nroom spawn is a growing on a ste	rilize	d grain medium.
		mushroom spores		pure mushroom mycelium
	(c)	elongated mushroom stem	(d)	mushroom rings

92.		substrate used for is a partially delitions generally termed as compost.	comp	osed organic matter prepared under aerobic
		milky mushrooms	(b)	paddy straw mushrooms
	(c)	oyster mushrooms	(d)	button mushrooms
93.	This	mushroom species is resistant to all the know	n mus	shroom viruses and to nematode.
	(a)	Agaricus bisporus	(b)	Agaricus bitorquis
	(c)	Volvariella volvacea	(d)	Volvariella esculenta
94.	Milk	y mushroom is		
	(a)	Lentinula edodes	(b)	Stropharia ruguso-annulata
	(c)	Colocybe indica	(d)	Auricularia polytricha
95.		hrooms have very short shelf life and are stor in a refrigerator.	ed	in paper envelopes kept in plastic
	(a)	after thorough washing	(b)	without washing
	(c)	after chemical treatment	(d)	with sufficient moisture
96.	The	causal organism of dry bubble disease in mush	room	is
	(a)	Cladobotryum dendroides	(b)	Verticillium fungicola
	(c)	Diehliomyces microsporus	(d)	Mycogone perniciosa
97.		mushroom pest cannot be seen by naked ey		looks like gunpowder when in mass, and
	(a)	Sciarid flies	(b)	Spring tails
	(c)	Phorid	(d)	Mycophagous mites
98.	Wet	bubble disease of button mushroom can be m	anage	ed by
	(a)	application of carbendazim (0.1%) in casing so	il (b)	low ammonia in the compost at spawning
	(c)	spray calcium chloride (1g/litre)	(d)	spray bleaching powder
99.		species of mushroom is medicinal and good for their excellent flavour.	or im	munity and liver health, and also popular as
	(a)	Oyster mushroom	(b)	Button mushroom
	(c)	Shiitake mushroom	(d)	Turkey tail mushroom
100.	This	oyster mushroom is known as pearl oyster ow	ing to	their colour
	(a)	Pleurotus sajor caju	(b)	Pleurotus ostreatus
	(c)	Pleurotus flabellatus	(d)	Pleurotus florida
