MIZORAM PUBLIC SERVICE COMMISSION

COMPETITIVE EXAMINATIONS FOR JUNIOR GRADE OF MIZORAM AGRICULTURE SERVICE (MAS) UNDER AGRICULTURE DEPARTMENT,

GOVERNMENT OF MIZORAM, JANUARY-FEBRUARY, 2024

PAPER - IV

Time Allowed: 3 hours	FM: 200
All auestions carry	equal marks of 2 each.
	all questions.
1' 1 for any propagating m	oterial known as
1. The term seed is used for any propagating m	(b) Endogeal
(a) Propagule	(d) All of these
(c) Progule2. The central variety release committee (CVR)	
	(b) 1968
(a) 1975	(d) 1990
(c) 19643. The first variety released by state variety released	
	(b) Siata Mimpui
(a) Zorin Bean	(d) Mizo chili
(c) Zovaimim	
4. Certified should be he progeny of	(b) Breeder seed
(a) Foundation seed	(d) Certified seed
(c) Nucleus seed	
5. Purple color certificate is associated to whi	(b) Registered
(a) Breeder	(d) certified
(c) Nucleus	
6. White color certificate is associated to which	
(a) Breeder	(b) Registered(d) Foundation
(c) Nucleus	
7. The seed class which needs to be maintain	ed by a plant breeder
(a) Foundation and certified seed	(b) Registered and certified seed
(c) Nucleus and breeder seed	(d) certified and nucleus seed
8. The first geographical indication (GI) produ	uct in India.
(a) Darjeeling Tea	(b) Dharwad peda
(c) Tirupati ladu	(d) Nagaland raja mircha
9. Geographical indication of goods (Registra	ation and Protection) act passed in the year
(a) 2002	(b) 2003
(a) 2010	(d) 2005

(c) 2010

10.	Mizo	oram state has GI for		
	(a)	Mizo chilli and Mizo turmeric	(b)	Mizo Chilli and zo ginger
	(c)	Mizo chilli and Mizo ginger	(d)	Birds eye chilli and Thingpui
11.	The	removal of off type plants for seed production	is kn	owns as
	(a)	Clearance	(b)	Roguing
	(c)	Breeder's removal	(d)	Degumming
12.	Amo	ng the intellectual property rights (IPR) which	one i	is the strongest?
	(a)	Patent	(b)	Trademarks
	(c)	GI	(d)	Copyright
13.	The a	agreement on Trade related aspects of IPR (TI	RIPS) was effective from the year
	(a)	1995	(b)	2000
	(c)	2005	(d)	1990
14.	The r	national seed corporation was founded in the y	ear	
	(a)	1955	(b)	1970
	(c)	1963	(d)	1990
15.	The	lifference between seed and grain is		
	(a)	Seed quality	(b)	Genetic purity
	(c)	Seed colour	(d)	Seed coat
16.	The f	ruit of two fused carpels is known as		
	(a)	Pedicle .	(b)	Funicle
	(c)	Siliqua	(d)	Panicle
17.	Seed	act in India was enacted in		
	(a)	1959	(b)	1970
	(c)	1966	(d)	1980
18.	The in	mpurity percentage of seed is called		
	(a)	Dockage	(b)	Dopage
	(c)	Sockage	(d)	Both (b) & (c)
19.	The s	eed viability test is also known as		2
	(a)	Tollium test	(b)	Tetrazolium test
	(c)	Zollium est	(d)	Germination test
20.	Whic	h test of serological method is used to confirm	the p	presence of virus in seed
	(a)	ELISA	(b)	Nucleic acid
	(c)	PCR	(d)	None of these
21.	Test v	veight of seed is used to determined how man	y no	of seed
	(a)	100	(b)	1000
	(c)	1500	(d)	Both (a) & (b)
22.	For st	orage of field crops, the seed should be dried	to _	% moisture.
	(a)	16	(b)	5-10
	(c)	10-12	(d)	12-15

23.	Pelle	eting of seed is done for		
	(a)	Uniformity in shape, size and weight of seeds	S	
	(a)	Uniformity in nutrient acquisition		
	(a)	For proper emergence		
	(d)	All of the above		
24.	The	protection of Plant Varieties and Farmers Rig	hts (PPV & FR) act 2001 protects
	(a)	Farmers rights	(b)	Plant breeder rights
	(c)	Both (a) & (b)	(d)	None of these
25.	Whi	ch one is a genetically modified crop (GMC)		•
	(a)	Bt brinjal	(b)	Bt cotton
	(c)	Golden rice	(d)	All of these
26.	The	effect of 2 or more genes to single character to in	nflue	nced each other's expression in various ways
		Gene interaction		Complementary gene action
	(c)	Supplementary gene action	(d)	All of these
27.	The g	gene Dee-geo-woo-gen is associated with whi	ch cı	op?
		Cotton		Rice
	(c)	Maize	(d)	Wheat
28.	The	offspring tendency in plants to resemble its par	ent i	s known as
		Variation		Inheritance
	(c)	Resemblance	` ′	Heredity
29.	Who	is the father of Genetics?	` ,	
	(a)	Watson	(b)	Bateson
	(c)	Morgan	(d)	Mendel
30.	The c	crossing of F1 to either of the parent is known	as	
		Test cross		Back cross
	• •	F2 cross	(d)	
31.	The c	oldest, simplest and most commonly used bree	ding	method is
		Pure line selection	_	In breeding selection
	(c)	F2 selection	• •	Mass selection
32.	Clon	al crops are also known as propag	gated	l crops.
		Asexually		Hybrid
	(c)	F1 selection		Sexually
33.	The r	parental lines showing high performance but ha	` ′	•
		Inbred lines		Composite varieties
	(c)	Hybrid		Pure lines
34.	The n	ninimum distance for rice to get a pure seed.	` /	
		2 m	(b)	4 m
	` '	5 m	` ′	3 m
35	• •	udden and heritable change in plant character	` ′	
		Genetic imbalance		Mutation
	` '	Cytoplasmin inheritance	` '	Heredity
	` /	- -	` /	

36.	Each	specific of tRNA has a group of three base	es called	
		Peptidyl		Codon
	(c)	Nucleotide	(d)	Anticodon
37.	The s	superiority or inferiority of an F1 to both its	s parent is	s called
		Inbreeding		Hybrid meltdown
	(c)	Heterosis	(d)	All of these
38.	A tra	it that defines some aspects of produce qua	ality is kr	nown as
	(a)	Quality trait	(b)	Inheritance
	(c)	Resemblance	(d)	All of these
39.	The t	erm Gene was coined by		
	(a)	Morgan	(b)	Mendel
	(c)	Johannsen	(d)	Bateson
40.	Pure	lines and inbred lines are		
	(a)	Heterogenous and Heterozygous	(b)	Homogenous and Homozygous
	(c)	Heterogenous and Homoygous	(d)	Homogenous and Heterozygous
41.	Equi	pment for seed bed preparation		
	(a)	Seed drill	(b)	Disc plough
	(c)	Wheel hoe	(d)	Power reaper
42.	Farm	mechanization can increase the cropping	intensity	to%.
	(a)	10-15	(b)	20-30
	(c)	15-20	(d)	30>
43.	The l	nighest mechanization index can be found t	for which	crop?
	(a)	Rice	(b)	Wheat
	(c)	Maize	(d)	Vegetable
44.	Cour	ntry ploughs, Bakhar and Patela are the mo	st popula	r traditional implements for
		Puddling		Weeding
	(c)	Seed bed preparation	(d)	Intercultural operation
45.	Norr	nally ploughing depth of soil is	_cm.	
		20	(b)	15
	(c)	25	(d)	10 .
46.	The	function of a seed drill is		
	(a)	Digging the soil and lining	(b)	Open furrow for ridging
	(c)	Open furrow and placement	(d)	All of these
47.	Plou	ghing method to break the soil and turn alo	ong the co	ontour
		Contour planking		Contour ridging
	(c)	Contour breaking	(d)	Contour ploughing
48.	Farn	n machinery in India started by adopting tec	chnologie	es from
		Europe		USA
	(c)	Africa	(d)	All of these
49.	Imp	roved tractor operated machineries could	save	% time.
		40-50		30-40
	(c)	60-70	(d)	50-60

50.	I ne s	seed cum tertilizer arili mainly replace the met	noa o	Γ
	(a)	Broadcasting	(b)	Puddling
	(c)	Planking	(d)	Weeding
51.	Powe	er tiller is use for which crop?		
	(a)	Rice	(b)	Maize
	(c)	Soybean	(d)	All of these
52.	Powe	er reaper is used for which crop?		
	(a)	Rice	(b)	Maize
	(c)	Soybean	(d)	All of these
53.	Ultra	low volume sprayers drops water and pesticion	de mi	xed in the form of
	(a)	Fog	(b)	Aerosol
	(c)	Mists	(d)	Sprays
54.	Plant	protection equipment's includes		
	(a)	Sprayer and Khurpi	(b)	Sprayer and reaper
	(c)	Sprayer and light trap	(d)	Sprayer an decorticator
55.	Pulve	erizer and chisel plough is for which operation		
	(a)	Seed bed preparation	(b)	Intercultural
	(c)	Harvesting	(d)	All of these
56.	Agric	cultural extension iseducation.		
	(a)	Non formal .	(b)	Formal
	(c)	Informal	(d)	None of these
57.	Princ	iple of extension education includes principle	of	
	(a)	Learning the knowledge	(b)	Learning of farmers
	(c)	Learning by doing	(d)	Learning by seeing
58.	Exte	nsion is based upon the methods of		
	(a)	Science	(b)	Arts
	(c)	Culture	(d)	Science and culture
59.	An e	xtension worker should help farmer to attain a	desir	able change in the farmers
	(a)	Belief	` ′	Temperament
	(c)	Health	(d)	Wealth
60.	The f	ather of extension education is		
	(a)	Sommers	` '	Brunner
	(c)	JP Leagans	(d)	Albert Mayer
61.	First	important step in an extension education proc	ess is	
	(a)	Situation analysis	(b)	Re consideration
	(c)	Objective definement	(d)	Traverse
62.	Dem	onstration of an extension teaching methods fa	lls un	der
	(a)	Spoken	` '	Written
	(c)	Visual	(d)	Spoken and Visual

63.	Inter	net is an extension teaching methods falling un	der	
	(a)	Spoken	(b)	Written
	(c)	Visual	(d)	Spoken and Visual
64.	Farm and home visit extension teaching methods falls under			
	(a)	Visual	(b)	Written
	(c)	Spoken	(d)	Spoken and Visual
65.	Spok	ken and visual methods are		
	(a)	Conferences	(b)	Charts and sound movies
	(c)	Leaflet	(d)	Speciments
66.	Exte	nsion programme should necessarily have which	ch ob	jetives
	(a)	Spoken	(b)	Written
	(c)	Visual	(d)	Spoken and Visual
67.	Last	step in an extension education process is		
	(a)	Specific	(b)	Simple
	(c)	Clear	(d)	All of these
68.	Fidel	ity in communication is associated with		
	(a)	Effectiveness	(b)	Barrier
	(c)	Sound	(d)	Noise
69.	The f	foundation stone of any extension programme	are	
	(a)	Problems .	(b)	Objectives
	(c)	Facts	(d)	Solutions
70.		irst step in any systematic attempt to promote r	ural o	development is to useful programmes based
	_	eople.		
		Needs and requirement	• ,	Knowledge
	, ,	Wealth	` ,	Health
71.		dia women comprise of% of agric		
	(a)		(b)	
	(c)		(d)	
72.		dia women comprise of% of self-e	_	
	(a)		(b)	
	(c)		(d)	
73.		dea of intensive all round development work		•
	` ,	Community development project	` ′	Etawah Pilot Project
	• •	Food enquiry committee	` ′	Grow more food
74.		irst agricultural university established in India v		
	• •	PAU, Punjab	` ′	IARI, New Delhi
	(c)	OUAT, Orrisa	(d)	GB Pant University, Uttarakhand
75.	_	ogramme based on principles of conservation a		-
	-	ntial and responsive areas with assured water s		
	` ′	SFA	` ′	MFALA
	(c)	IADP	(a)	NDP

76. The first KVK was established in 1974 based of	on the recommendation of
(a) IADP	(b) Command and development programm
(c) Education Commission	(d) Planning commission
77. The scheme aiming to provide technical and enwas	atrepreneurial skills to rural youth age (19 - 35) years
(a) TRYSEM	(b) IRDP
(c) DDP	(d) JRY
78. The NDC on May, 2007 a special additional ce	
(a) JTY	(b) IVLP
(c) IRDP	(d) RKVY
79. Transact walk and Technology is a part of	
(a) ITK	(b) RRA
(c) PRA	(d) All of these
80. Traditional agriculture knowledge has	
(a) Labour extensive	(b) High risk factor
(c) Non adaptable to multipurpose needs	(d) Minimum risk factor
81. The capital that is consumed by a farm in the pro-	oduction process is known as
(a) Depriciation	(b) Capital cost
(c) Marginal lost	(d) Production cost
82. Farm management is an economics involving the	e scarcity of resources, alternative use &
(a) Optimum profit	(b) Improved economics
(c) Profit maximization	(d) Output maximization
83. Characteristics of a good farm plan is	-
(a) Use external forces for profit	(b) Solely profitable
(c) Increase profit by marketing	(d) Balance combination of enterprises
84. Analyzing plans for the use of agricultural resour	ces at the command of the decision maker
(a) Farm budgeting	(b) Farm plan
(c) Farm needs	(d) Farm marketing
85. The study of financing and liquidity services cred	it provided to farm borrowers.
(a) Macro finance	(b) Agricultural economics
(c) Agricultural finance	(d) Agricultural budget
86. Crop damage insurance scheme (PMFBY) was la	nunched on
(a) February, 2016	(b) February, 2015
(c) May, 2016	(d) March, 2016
87. The headquarter of NABARD is located at	
(a) Delhi	(b) Chennai
(c) Kolkata	(d) Mumbai
88. The kisan credit card scheme was recommended	by
(a) RV Gupta Committee	(b) Balvantrai committee
(c) Gadgil committee	(d) None of these

89. The term MSR in agricultural marketing stands	s for
(a) Market supply ratio	(b) Mean supply ratio
(c) Marginal surplus ratio	(d) Marketed surplus ratio
90. Public sector institution is	
(a) State level agricultural marketing boards	(b) TRIFED
(c) Food corporation of India	(d) NAFED
91. Nationalization of banks was implemented und	ler the Banking Companies Act of
(a) 1970	(b) 1980
(c) 1760	(d) 1975
92. Demand for factors of production is	•
(a) Composite demand	(b) Derived demand
(c) Joint demand	(d) Marketed demand
93. Rice is harvested normally when the grain mois	sture content is less than %.
(a) 15	(b) 10
(c) 5	(d) 20
94. The harvest maturity symptoms of wheat is	
(a) Yellowing of spikelets	(b) Red colour stem
(c) Yellowing of internodes	(d) Brown colour leaf
95. The harvest maturity symptoms of pulses is	
(a) Brown pods	(b) Hard seed in pods
(c) Brown and drying of maximum leafs	(d) All of these
96. The principles of farm finance as three C's are G	Character
(a) Concentration and Capital	(b) Capability and Capacity
(c) Capacity and Capital	(d) All of these
97. The 12 th ministerial conference of WTO from Ja	une, 2022 reach a consensus on
(a) Waiver for covid 19 vaccines	(b) Fishery subsidies
(c) Food security	(d) All of these
98. If the cost benefit ratio (BCR) of a project is > 1	but less than 2, it is invest on
(a) Not worthy	(b) Worth
(c) Can be worth nor not worthy	(d) All of these
99. The coefficient of variation is	
(a) Standard deviation/Mean	(b) Standard error/Mean
(c) Standard deviation/Standard error	(d) None of these
100. Mizoram state produce about % of r	ice requirement for the state.
(a) 50	(b) 80
(c) 35	(d) 10

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