MIZORAM PUBLIC SERVICE COMMISSION

LIMITED DEPARTMENTAL EXAMINATIONS FOR PROMOTION TO SERICULTURE EXTENSION OFFICER (S.E.O)

UNDER SERICULTURE DEPARTMENT, GOVERNMENT OF MIZORAM. OCTOBER -2021

		PAPER -	- I	
Time	Allov	ved: 3 hours		Full Marks : 100
		All questions carry equal Attempt all que		· ·
1.	A ba	sal dose of organic manure is applied at the ra	te of	per hectare in rainfed areas:
	(a)	5 tonnes	(b)	10 tonnes
	(c)	20 tonnes	(d)	25 tonnes
2.	Perio	dically some branches of the mulberry plants are	e met	hodically cut off, and this operation is called:
	(a)	Cutting	(b)	Layering
	(c)	Pruning	(d)	Mulching
3.	The i	nter-plant and inter-row distance recommende	ed for	tropical countries is:
	(a)	1×1 feet	(b)	2×2 feet
	(c)	3×3 feet	(d)	4×4 feet
4.		system is followed for rainfed mulber	ry cro	op:
	(a)	Pit system	(b)	Row system
	(c)	Kolar system	(d)	Strip system
5.	Mult	perry can be grown in a rainfall rage of:		
	(a)	150mm – 500mm	(b)	200mm - 750mm
	(c)	400 mm - 1500 mm	(d)	600mm-2500mm
6.	The i	deal range of pH value of soil for mulberry cult	ivatio	on is:
	(a)	3.5 - 3.9	(b)	4.9 - 5.5
	(c)	6.2 - 6.8	(d)	7.2 - 7.2
7.	Mult	perry is mostly propagated through:		
	(a)	Layering	(b)	Grafting
	(c)	Sapling	(d)	Cutting
8.	The	required temperature and relative humidity duri	ing pr	reservation of leaves:
		below 5°C and over 75%		below 10°C and over 80%
	(c)	below 20°C and over 90%	(d)	below 25°C and over 95%
9.	Leav	es harvested in the contain less v	vater	and more carbohydrates:
	(a)	morning	(b)	afternoon
	(c)	night	(d)	noon
10.	The	nter-row spaces are covered with cut-straw n	nats o	or mulberry twigs as a protective material.
	This	is called:		· -
	(a)	Intercultivation	(b)	Pruning

(d) Mulching

(c) Grafting

11.	The	period of mulberry storage should not exceed		:
	(a)	8 hours	(b)	12 hours
	(c)	18 hours	(d)	24 hours
12.		, in which the mulberry branches are c	ut arc	ound mid-height at about one metre:
	(a)	Bottom pruning	(b)	Middle pruning
	(c)	Top pruning	(d)	Ground pruning
13.	Mulb	perry cuttings should be selected from well esta	ablish	ed garden of:
	(a)	2-3 months	(b)	5-6 months
	(c)	8-12 months	(d)	1 -2 years
14.	In ro	w system of planting, recommended dose of N	VPK(I	Kg/ha) in irrigated areas:
	(a)	50:50:50	(b)	100:50:50
	(c)	200:100:100	(d)	300 : 120 : 120
15.		requires more labour and further the l	eaves	s wither too quickly:
	(a)	Leafpicking	(b)	Branch cutting
	(c)	Whole shoot harvest	(d)	Top cutting
16.	In M	izoram, mulberry is generally propagated throu	ıgh:	
	(a)	Seedling	(b)	Cutting
	(c)	Sapling	(d)	Layering
17.	Time	of harvesting preferable during:		
	(a)	morning hours	(b)	noon time
	(c)	evening hours	(d)	night time
18.	Optin	mum spacing of mulberry planting under rainfe	d con	dition is:
	(a)	40×40 cm	(b)	60 × 60cm
	(c)	90 × 90cm	(d)	120 × 120cm
19.		is a technique of joining the parts of t	wo pl	ants in such a way that they unite and grow
		e plant:		
		Grafting		Layering
	(c)	Budding	(d)	Cutting
20.	Mulb	perry is mainly planted in the month of:		
		March – April		April – June
	(c)	July – August	(d)	September – November
21.		n the scion is inserted into the stem portion, it		
		Crown grafting	` ′	Whip grafting
	(c)	Shoot grafting	(d)	Wedge grafting
22.	In ord	der to loosen the soil, land should be prepared		
	` '	12 – 15cm	` ′	15 - 20cm
	(c)	20-30cm	(d)	30 - 40cm
23.	In Ind	dia, the leaf picking starts abouta		pottom pruning:
	` '	2 weeks	` ′	5 weeks
	(c)	10 weeks	(d)	20 weeks

ofit:	(1) P. 1 (1)			
(a) Root grafting	(b) Bud grafting			
(c) Shoot grafting	(d) Layering			
25. Regular irrigation at an interval of				
(a) $2-3$	(b) $3-5$			
(c) 5-6	(d) $8-10$			
is the most popular method us				
(a) Seedling propagation	(b) Vegetative propagation			
(c) Cutting propagation	(d) Grafting			
27. Recommended doses of fertilizers after 2 nd				
(a) 100N:50P:50K	(b) 100N:100P:50K			
(c) 100N:100P:100K	(d) 50N:50P:50K			
· -	ted and used to feed silkworms. This method is known as:			
(a) Branch cutting	(b) Whole shoot harvest			
(c) Leaf picking	(d) Root cutting			
29. The common organic manure used in mulbe	· -			
(a) Neem oil cake	(b) Silkworm litter			
(c) Mulberry twigs	(d) FYM and compost			
30. Mulberry grows best in:				
(a) Alluvial soil	(b) Black soil			
(c) Fertile soil	(d) Red loamy soil			
	during the first six months after planting of cuttings:			
(a) one weeding	(b) two weedings			
(c) three weedings	(d) four weedings			
32. In case of leaf harvest methods, the first ha				
(a) 50 days	(b) 70 days			
(c) 100 days	(d) 120 days			
	doses following the first bottom pruning and third pruning:			
(a) 10 tonnes/ha/yr	(b) 20 tonnes/ha/yr			
(c) 25 tonnes/ha/yr	(d) 40 tonnes/ha/yr			
34. Mulberry is a perennial, and it consistently y				
(a) $5 - 10 \text{ yrs}$	(b) $10 - 15 \text{ yrs}$			
(c) $15 - 20 \text{ yrs}$	(d) $25 - 30 \text{ yrs}$			
35. Recommended dose of fertilizer during 1 st y				
(a) 25N: 25P: 25K	(b) 50N:50P:50K			
(c) 50N: 25P: 25K	(d) 50N: 25P: 50K			
36. In leaf picking method, the first bottom pruground level:	ning has to be taken up at a height of from			
(a) $5-10 \text{ cm}$	(b) $10-15 \text{ cm}$			
(c) $15-20 \text{ cm}$	(d) $20 - 25$ cm			

37.			straw or other domestic and agricultural		
	wastes in pits under anaerobic conditions:				
	(a) Compost	` '	FYM		
	(c) Green Manure	(d)	Biogas slurry		
38.	After planting, the saplings need to be cu	t at	_ above the ground level within a week:		
	(a) $5-10 \text{ cm}$	(b)	10 - 15 cm		
	(c) $20 - 25 \text{ cm}$	(d)	25 - 30 cm		
39.	consists of dung, urine and	straw that has b	peen used as bedding for cattle:		
	(a) Green manure	(b)	compost		
	(c) FYM	(d)	Sericulture waste		
40.	Any biological material or process used for	or adding essen	tial nutrient content to the soil is called:		
	(a) Chemical fertilizers	(b)	Biofertilizers		
	(c) Organic Manure	(d)	Manure		
41.	Bombyx mori, the mulberry silkworm is i	ncluded in the	order of:		
	(a) Insecta	(b)	Lepidoptera		
	(c) Arthropoda	(d)	Bombycidae		
42.	races produce only one gen	eration per yea	r:		
	(a) Univoltine	(b)	Bivoltine		
	(c) Multivoltine	(d)	None of these		
43.	The newly hatched larva is about	long:			
	(a) 2 mm	(b)	3 mm		
	(c) 5 mm	(d)	6 mm		
44.	Bombyx mori undergoes complete metar	norphosis and l	nas stages in its life cycle:		
	(a) 2	(b)	3		
	(c) 4	(d)	5		
45.	Pupal period of bivoltine races of Bomby	<i>x mori</i> is:			
	(a) 12 – 15 days	(b)	15 - 20 days		
	(c) $20 - 25$ days	(d)	28-28 days		
46.	The newly hatched larva is	n colour:			
	(a) white		black		
	(c) brown	(d)	green		
47.	The protective covering of the silkworm	egg is called:			
	(a) micropyle	(b)	endochorion		
	(c) chorion	(d)	exochorion		
48.	Larval period of multivoltine races of Bo				
	(a) 5-10 days	-	10 – 20 days		
	(c) $20 - 25$ days	` '	25 - 30 days		
40	Bivoltine races of mulberry silkworm gen				
47 ,	(a) greenish cocoon		golden yellow cocoon		
	(c) white cocoon		pale vellow cocoon		

50 is a term used in biology to indicate the number of broods or generations of an organism				
in a year:	(L) Valdiniana			
(a) Moultinism	(b) Voltinism			
(c) Multivoltine	(d) Univoltine			
51. In diapausing races, the colour of the eggs change				
(a) black colour	(b) red colour			
(c) dark green colour	(d) deep brown colour			
52. The size of moth is about:				
(a) 1×2 cm	(b) 2×2 cm			
(c) 3×3 cm	(d) 4×2 cm			
53. The female larva has a pair of sex marks on the called:	ventral side of the 8 th and 9 th abdominal segments			
(a) Bursa copulatrix	(b) Herold's gland			
(c) Ishiwata's fore glands	(d) Seminal duct			
54. In male pupa, there is a small round spot on the	segment:			
(a) 6 th	(b) 7 th			
(c) 8 th	(d) 9 th			
55. The destruction of disease causing germs is known	vn as:			
(a) disinfectant	(b) disinfection			
(c) fumigation	(d) bed cleaning			
56. The casting off its skin by silkworm is called:				
(a) moulding	(b) mounting			
(c) moulting	(d) voltinism			
57. In case of male moth, segments are	visible in the abdomen.			
(a) 6 th	(b) 7 th			
(c) 8 th	(d) 9 th			
58. Commercial formalin contains form	naldehyde:			
(a) 20 – 25 %	(b) 26 – 30%			
(c) 36 – 40%	(d) 40 – 45%			
59. Silkworm litter should be removed periodically,	and the process of its removal is called:			
(a) disinfection	(b) bed cleaning			
(c) deflossing	(d) disinfectant			
	tion of rearing room and rearing appliances prior to			
the commencement of rearing:				
(a) 2%	(b) 5%			
(c) 8%	(d) 10%			
61. Young age silkworm require:				
(a) matured leaves	(b) bottom leaves			
(c) thick leaves	(d) tender leaves			
62. How many times required bed cleaning during th	e 2 nd instar:			
(a) one	(b) two			
(c) three	(d) four			

63.	Ther	mesh size during 1st instar:			
	(a)	1 mm ²	(b)	$2\mathrm{mm}^2$	
	(c)	3 mm^2	(d)	$4\mathrm{mm}^2$	
64.	Moul	lting occurstimes during the larva	al life	e in commercia	l races.
	(a)	2	(b)	3	
	(c)	4	(d)	5	
65.		are placed below the legs of the rearing	ıg sta	and are fille	ed with water to prevent ants
		crawling up.			
	(a)	Foam rubber strip	(b)	Mats	
	(c)	Feeding stand	(d)	Ant wells	
66.	Requ	nired temperature during the 5 th instar:			
	` '	$16 - 18^{0}$ C		$23 - 24^{\circ}C$	
	(c)	$24 - 28^{\circ}$ C	(d)	$28 - 30^{0}$ C	
67.	The b	pest time for brushing is:			
	(a)	6 am	(b)	8 am	
	(c)	10 am	(d)	11 am	
68.		is used to prevent evaporation of mois	ture a	and to maintain	high humidity in the rearing
	bed:				
	` ′	Foam rubber strip	` ′	Paraffin paper	r
	(c)	Mats	(d)	Ant well	
69.		opical regions, the best orientation of rearing h		· · · · · · · · · · · · · · · · · · ·	
	` ′	North – South	` /	South – North	h
	` ′	East – West	` /	West – East	
70.	In ge	neral, a floor area of is required	for tr	ay rearing met	hod:
		1sq ft/dfl		2sq ft/dfl	
	(c)	3sq ft/dfl	(d)	4sq ft/dfl	
71.		is the most popular method of brushir	g in]	India:	
	` '	Husk method	` ′	Net method	
	(c)	Cloth method	(d)	Feather method	od
72.	-	mum temperature required during the 1st instar	:		
	` ′	$10 - 15^{0}$ C	()	$15 - 18^{\circ}$ C	
	(c)	$26 - 28^{\circ}$ C	(d)	$28 - 32^{0}$ C	
73.		directly affects the growth of the larv	ae an	d quality of co	coons:
	(a)	Humidity	(b)	Temperature	
	(c)	Heat	(d)	Air	
74.		before brushing, disinfection should b	e doi	ne:	
	(a)	1 day	(b)	2 days	
	(c)	3 days	(d)	4 days	
75.		rearing room should have proper ventilation of	air aı	nd	of light andof
	darkı		، ندر		
	(a)	18 hours and 1 hours	(b)	18 hours and	2 hours

(d) 18 hours and 8 hours

(c) 18 hours and 6 hours

76.	Required relative humidity during the 1st instar:		
	(a) 70%	(b)	75%
	(c) 80%	(d)	85%
77.	The first moult lasts for:		
	(a) $5 - 10$ hours	(b)	10 – 15 hours
	(c) $15-20 \text{ hours}$	(d)	20 – 24 hours
78.	races lay only non-hibernating eggs:		
	(a) Univoltine	(b)	Bivoltine
	(c) Multivoltine	(d)	Commercial
79.	Required relative humidity during the 5 th instar:		
	(a) 70%	(b)	75%
	(c) 80%	(d)	85%
80.	Silkworm are fond of dim light:		
	(a) $15-30 \text{ lux}$	(b)	20 – 25 lux
	(c) $25-30 \text{ lux}$	(d)	30-35 lux
81.	Silkworm settle for first moult usually in	fr	om the date of brushing:
	(a) 1 day	(b)	2 days
	(c) 3 days	(d)	5 days
82.	Quantam of leaf required for late age silkworm rea	ring is	s about:
	(a) 50%	(b)	75%
	(c) 84%	(d)	94%
83.	The maximum distance to be covered during transpo	rtatior	n of young age silkworm is about
	journey:		
	(a) 3 hours	(b)	
	(c) 8 hours	(d)	12 hours
84.	The second instar generally lasts for:		
	(a) 1 day		1-1.5 days
	(c) $2 - 2.5$ days	(d)	3-3.5 days
85.	Wooden or bamboo rearing trays are arranged in t		
	(a) Floor rearing	` '	Tray rearing
	(c) Self rearing	(d)	Shoot rearing
86.	During the late age period, the silkworm body weight	_	•
	(a) 20 times	` '	25 times
	(c) 30 times	` ,	35 times
87.	Matured silkworm can complete cocooning in about	ut:	
	(a) 2 days	(b)	•
	(c) 5 days	(d)	6 days
88.	Transferring of matured silkworm larvae to a suital	ble fra	•
	(a) Moulting	(b)	1 0
	(c) Brushing	(d)	Mounting

89.	I ne v	worm inside the cocoon turns into pupa on the		:
	(a)	4 th day	(b)	6 th day
	(c)	8 th day	(d)	10 th day
90.	The t	ime required for spinning silk to make a cocoo	n fro	m beginning to end is usually about:
	(a)	12 hours	(b)	24 hours
	(c)	48 hours	(d)	56 hours
91.	Durii	ng young age period, the silkworm body weigh	t inci	rease by:
	(a)	100 times	(b)	200 times
	(c)	300 times	(d)	400 times
92.	Coco	oons usually harvested on the afte	r mo	unting:
		1 st day		2 nd day
	(c)	4 th day	(d)	6 th day
93.	The	process of transferring newly hatched larvae from	om e	gg sheet to rearing tray is called:
	(a)	Spinning	(b)	Mounting
	(c)	Brushing	(d)	Moulting
94.	When	n of the worms settle for moult, f	eedi	ng should be stopped.
		30 – 40%		50 - 60%
	(c)	70 - 80%	(d)	90 - 95%
95.		helps uniform hatching of eggs:		
	(a)	Incubation	(b)	Black boxing
	(c)	Procurement of eggs	(d)	Brushing
96.		races lay only diapausing eggs:		
		Univoltine	(b)	Bivoltine
	(c)	Multivoltine	(d)	Commercial
97.		is a very useful disinfectant in sericultu	ıre, e	specially against viruses:
	(a)	Formalin	(b)	Bleaching powder
	(c)	Slaked lime	(d)	Chlorine dioxide
98.	Then	nale larva has a single median opening at the ju	ınctic	on of the 8th and 9th segments called opening
	of	:		
	(a)	Herold's gland	(b)	Receptaculum Seminis
	(c)	Ishiwata's foreglands	(d)	Ishiwata's hindglands
99.		emale pupa can be distinguished from the male b	y the	e vertical line in the centre of the
		minal segment on the ventral side:		-1
	(a)		(b)	
	(c)		(d)	9 th
100.		iding ideal environmental conditions to the e	ggs f	or healthy growth and development of the
		yo is:	(h)	Drughing
	` ′	Incubation Discharge and the second	(b)	Brushing
	(c)	Black boxing	(d)	Procurement of eggs

* * * * * * *