MIZORAM PUBLIC SERVICE COMMISSION

TECHNICAL COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF SERICULTURE EXTENSION OFFICER UNDER SERICULTURE DEPARTMENT GOVERNMENT OF MIZORAM, AUGUST, 2022

TECHNICAL PAPER - II

Time Allowed: 2 hours	Full Marks: 150
-----------------------	-----------------

All questions carry equal mark of 2 each.

Attempt all questions

Attempt att questions.				
1.	Silk i	S		
	(a)	Natural polymers – rayon	(b)	Animal products – wool
	(c)	Animal products – fibrous protein	(d)	Synthetic fibres – acrylics
2.	Amo	ng the following Silk, which one is not Vanya S	Silk?	
	(a)	Muga	(b)	Oak tasar
	(c)	Mulberry	(d)	Eri
3.	Prod	ucer of the four commercial Silk is		
	(a)	South Korea	(b)	China
	(c)	India	(d)	Japan
4.	Amo	ng Indian States. Which one is producing all th	ne fou	ır Silk?
	(a)	Karnataka	(b)	Jammu & Kashmir
	(c)	Mizoram	(d)	West Bengal
5.	Top t	hree raw Silk producers in the World are		
	(a)	China, South Korea, Thailand	(b)	Japan, Brazil, Iran
	(c)	India, Japan, North Korea	(d)	China, India, Uzbekistan
6.	In In	dia, the top three raw Silk producers are		
	(a)	West Bengal, Jharkhand, Mizoram	(b)	Karnataka, Andha Pradesh, Assam
	(c)	Karnataka, Tamil Nadu, Assam	(d)	West Bengal, Assam, Tamil Nadu
7.	Amo	ng the Silk, Mulberry alone contributes approx	imat	ely
	(a)	75 %	(b)	85 %
	(c)	90 %	(d)	95 %
8.	Shor	ea robusta is the food plant of		
	(a)	Eri Silkworm	(b)	Tropical tasar Silkworm
	(c)	Temperate tasar Silkworm	(d)	Muga Silkworm
9.	Anth	eraea roylei is the Scientific name of		
	(a)	Oak tasar Silkworm	(b)	Muga Silkworm
	(c)	Temperate tasar Silkworm	(d)	Eri Silkworm
10.		t is the year when the raw Silk was exported frably through the Silk road?	om I	ndia to Rome during the reign of Kanishka
	(a)	38 B.C.	(b)	58 B.C.
	(c)	80 B.C.	(d)	90 B.C.

11.	Which State in India created the first separate Department in 1911?				
	(a)	Madras	(b)	West Bengal	
	(c)	Karnataka	(d)	Andra Pradesh	
12.	. In which year did Central Silk Board (CSB) was established in the constituent Assembly of Inc.				
	(a)	1926	(b)	1947	
	(c)	1950	(d)	1951	
13.	What	t is the first Sericultural Research station in Ind	lia?		
	(a)	Regional Sericulture Research Station, Banga	lore		
	(b)	International Centre for Training & Research	in Tr	opical Sericulture, Mysore	
	(c)	Central Sericultural Research & Training Inst	itute,	Mysore	
	(d)	Central Tasar Research & Training Institute, I	Rancl	hi.	
14.	Bom	boyx mori is			
	(a)	Eri silkworm	(b)	Oak tasar silkworm	
	(c)	Muga silkworm	(d)	Mulberry silkworm	
15.	The	norphological character, the colour of Bomby	x mo	ri cocoon of Chinese race is	
	(a)	Slate	(b)	Green	
	(c)	Pale yellow	(d)	Purplish yellow	
16.	The	only indigenous Mulberry Univoltine race of In	dia is	3	
	(a)	C. Nichi	(b)	Chotopulu	
	(c)	Nistari	(d)	Borapalu	
17.	In on	e gram of Bombyx mori egg, the total number	ofeg	ggs are	
	(a)	1,000	(b)	1,500	
	` /	2,000	(d)	2,500	
18.		ength of the newly hatched larva is about			
		1 mm	` ′	2 mm	
	` ′	3 mm	` ′	4 mm	
19.	The Mulberry silkworm (male larva) has a single median opening at the junction of the 8 th & 9 segments called the opening of			ian opening at the junction of the 8 th & 9 th	
	_	Seminal duct	(h)	Bursa copulatrix	
	()	Ishiwata's	` ′	Herold's gland	
20	` '	content of formaldehyde in a commercial forma	` '		
20.		25-30 %		35-40 %	
	()	40-45 %	` /	50-60 %	
21	()	t is the percentage of formalin used to disinfec	` /		
21,		tion prior to the beginning of the next rearing?	ot tiic	rearing room and appliances area pooring	
	(a)	2 %	(b)	3 %	
	(c)	5 %	(d)	7 %	
22.	What	t is the best time for brushing newly hatched la	rvaeʻ	?	
		6 AM		8 AM	
	` '	10 AM	` ′	11 AM	
23.	` /	optimum humidity of Mulberry silkworm rearin	` '		
		85 % R.H.	•	80 % R.H.	
	` /	75 % R.H.	` ′	70 % R.H.	
	\ /		\ /		

24. The number of feedings per day in Mulberry s	shoot and floor rearing is usually
(a) 5	(b) 4
(c) 3	(d) 2
25. The weight of a fully mature larva of Muga is	
(a) 5-10 gm	(b) 10-15 gm
(c) 15-20 gm	(d) 20-25 gm
26. The equiptment used for transfering Muga silk	cworm is
(a) Khorika	(b) Racks
(c) Chaloni	(d) Jalis
27. The life cycle of Muga silkworm in winter can	n prolonged to
(a) 80 days	(b) 100 days
(c) 120 days	(d) 140 days
28. In Muga silkworm rearing, for commercial pro	oduction brushing of larvae is continued till the
(a) 2 nd day	(b) 3 rd day
(c) 4 th day	(d) 5 th day
29. The most common enemies of Muga silkworm	•
(a) Carpenter ant	(b) Uzifly
(c) Fire ant	(d) Spider
30. In Muga silkworm rearing maximum ripening	, , <u>-</u>
(a) Morning	(b) Day time
(c) Evening	(d) Early night hours
31. In Mulberry silkworm rearing, the ideal size of	. ,
(a) 1-2 cm	(b) 2-4 cm
(c) 3-4 cm	(d) 4-5 cm
32. During silkworm rearing the litter is removed	-
(a) Spacing	(b) Mounting
(c) Dusting	(d) Bed cleaning
33. How many times did the sillworm increase in	
(a) 4,000 - 5,000	(b) 5,000 - 6,000
(c) 6,000 - 7,000	(d) 7,000 -10,000
34. In silkworm rearing of Mulberry the spacing g	
(a) 6	(b) 7
(c) 8	(d) 9
35. In tropical areas the ideal harvesting time is	
(a) 3 rd day of spinning	(b) 4 th day of spinning
(c) 5 th day of spinning	(d) 7 th day of spinning
36. In Chawki rearing the optimum temperature m	naintained is
(a) 24°C	(b) 25°C
(c) 26°C	(d) 27°C

37.	In silkworm rearing the time for removing paraffin cover on the top prior to each feeding for ventilation is			
	(a)	10 mins	(b)	15 mins
	(c)	30 mins	(d)	1 hour
38.	Wha	t is the used of feather in silkworm rearing?		
	(a)	For cleaning	(b)	For brushing hatched worms
	(c)	For dusting bed disinfectants	(d)	For mounting, etc.
39.	For r	earing of tasar silkworm, the ideal height of fo	od pl	ants is
	(a)	2 - 3 metres	(b)	3.0 - 3.5 metres
	(c)	3.5 - 4.0 metres	(d)	4 - 5 metres
40.	At w	hich temperature when tasar silkworm is in-ac	tive u	under low temperature?
	(a)	10°C	(b)	15LC
	(c)	20°C	(d)	25°C
41.	The 1	eaves consumed during V instar by the silkwor	rm is	approximately
	(a)	50 %	(b)	60 %
	(c)	70 %	(d)	80 %
42.	The s	spinning is continues after completely envelop	ed by	the cocoon for another
		1 - 2 days	•	2 - 3 days
	(c)	3 - 4 days	(d)	4 - 5 days
43.	The v	weight of tasar silkworm egg is approximately		•
		3 mg	(b)	5 mg
		10 mg	` '	20 mg
44.	` ′	weight of a mature single tasar silkworm larva i	` /	
		20 gm		30 gm
	` '	50 gm	` ′	80 gm
15	` '	ng the food plants memtioned below, what is n	` /	· ·
43.		Plumeria acutifolia		Manihot utilissima
	` '	Terminalia tomentosa	` ′	Ricinus communis
16		vild Eri silkworm is	(u)	Richius Communis
40.		Samia cynthia	(h)	Antheraea mylitta
	` ′	Antheraea assamensis	. ,	Philosamia ricini
47	` /	first record of Pebrine occurrence comes from	` /	
4 /•		1840		1845
	` '	1850	` ′	1855
48	` '	ine spores are easily recognised in a microscop	()	
10.		300x400		400x500
	` /	500x600	(d)	600x700
49.	` /	the one which is not a symptom of Flacherie	(4)	OOOK/OO
17.		Loss of appetite	(b)	Vomiting
	` ′	Sluggishness	(d)	Slow growth
50	` '	disease often called as 'Jaundice' is	(4)	Bran
J U •		Grasserie	(b)	Sotto disease
	` '	Flacherie	(d)	
	(-)		(4)	L

51.	What	t is the disease with a symptom appears yellow	ish o	or white fluid escapes from ruptured places
	(a)	Flacherie	(b)	Grasserie
	(c)	Muscardine	(d)	Sotto disease
52.	Musc	cardine disease is caused by		
	(a)	Microsporidiosis	(b)	Virus
	(c)	Bacteria	(d)	Fungi
53.	The	most destructive pests of silkworm is		
		Dermestid beetles	(b)	Uziflies
	(c)	Ants	(d)	Wasps
54.	The	oredator which eat the silkworms as such and	also t	the pupae after biting open the cocoons is
	-	Lizards		Dermestid beetles
	(c)	Birds	(d)	Rats
55.	Durii	ng disinfection of Rearing house the room temp	erati	are should be maintained preferably at
		20°C		23°C
	(c)	25°C	(d)	30°C
56.	The	nost appropriate method of brushing for loose	eggs	is
		Husk method		Cloth/paper method
	(c)	Feather method		Net and feeding
57.	The s	size of the chopped leaves for the $2^{ m nd}$ instar Mu	lberi	y silkworm is
		1.0 - 1.5 cm		1.5 - 2.0 cm
	(c)	2.0 - 4.0 cm	(d)	4.0 - 6.0 cm
58.	How	many times we should do bed cleaning in Mul	berry	silkworm rearing at 3 rd instar?
		Once		Twice
	(c)	Thrice	(d)	Once every day
59.	How	many times did the silkworm increased in size	?	
		3,000		5,000
	(c)	7,000	(d)	9,000
60.	In sil	kworm rearing paraffin paper is used for		
		Bed cleaning	(b)	Moulting
	(c)	Maintaining temperature	(d)	Maintaining humidity
61.	In hu	mid conditions, paraffin paper method of reari	ng ca	nn causes
		Pebrine	_	Muscardine
	` '	Sotto disease	(d)	Septicaemia
62.	Choc	ose the method which is not appropriate for late		-
		Chawki rearing	(b)	<u> </u>
	` '	Floor rearing	(d)	<u> </u>
63.		tion the most economical method of silkworn	` /	_
J		ing, etc.		
	(a)	Box rearing	(b)	Floor rearing
	(c)	Shelfrearing	(d)	Shoot rearing

64.	Ideal relative humidity during spinning of cocoons is				
	(a)	40 - 50 %	(b)	50 - 60 %	
	(c)	60 - 70 %	(d)	70 - 80 %	
65.	In one hectare of land with a spacing of 5 m x 5 m between trees and rows, som/soalu trees accommodate				
	(a)	300	(b)	400	
	(c)	500	(d)	600	
66.	Gern	n plasm bank in Mulberry breeding refers to			
	(a)	Cross pollination method	(b)	Selection of parents	
	(c)	Collection of genotypes	(d)	Studies on floral characters, anthesis, etc.	
67.	Selec	et the beneficial mutants produced through che	mica	ll mutagenesis by CSR & TI, Mysore	
	(a)	S 54	(b)	TR 10	
	(c)	Kosen	(d)	BC 2 59	
68.	The	cheapest and quickest method of crop improve	ment	in Mulberry breeding programme is	
	(a)	Selection	(b)	Hybridization	
	(c)	Variation	(d)	Mutation breeding	
69.	The	najor elements which are essential for plant gr	owth	are	
	(a)	Ca, Mg, S	(b)	Cu, Co, B & Cl	
	(c)	N, P, K	(d)	Fe, Mn, Zn	
70.	Why	should we do not disturbed the worms during	spini	ning of cocoon?	
	(a)	They wander and disturb others			
	(b)	It causes suspension of spinning and breaking	g of t	he thread	
	` ′	The spinning of cocoons delay			
	(d)	The humidity can be raised			
71.	Spini	ning of cocoons completed during			
	(a)	24 hrs	(b)	24 - 48 hrs	
	(c)	48 - 72 hrs	(d)	72 - 96 hrs	
72.	In In	dia, 'Rangi' is one of the silkworm diseases, th	e oth	er name is	
	()	Court disease	(b)	Septicaemia	
	(c)	Bacterial flacherie	(d)	Sotto disease	
73.	The o	colour of the newly hatched silkworm larva is			
	(a)	White	(b)	Red	
	(c)	Black	(d)	Purple	
74.	Resp	iratory function of silkworm larva is carried ou	t thro	ough	
	(a)	Spiracles	(b)	Taenidium	
	(c)	Rectum	(d)	Tracheal bush	
75.	The s	silkworm larval life is distinctly divided into			
	(a)	Three stages	(b)	Four stages	
	(c)	Five stages	(d)	Six stages	