

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 - IV

Time Allowed : 2 hours

Full Marks : 150

All questions carry equal mark of 2 each.

Attempt all questions.

1. About _____ of Silk Reeled in India is on Charkha.
(a) 20% (b) 70%
(c) 50% (d) 10%
2. Live pupae transforms into moths and emerge out by piercing the cocoon shell within _____ days after cocoon formation.
(a) 20-25 days (b) 10-12 days
(c) 5-6 days (d) 15-20 days
3. Wet cocoon should not be stored for long time as such they are easily infected by
(a) Virus (b) Bacteria
(c) Fungus (d) Pebrine
4. A bale of Silk contains _____ Silk.
(a) 40 kgs. (b) 80 kgs.
(c) 30 kgs. (d) 60 kgs.
5. The operation of unwinding of Silk filaments/bave from the cocoon is called
(a) Stifling (b) Reeling
(c) Cooking (d) Denier
6. _____ types of cocoons are available in Mizoram.
(a) Two (b) Three
(c) Five (d) Four
7. Silk is Natural Fibre.
(a) Correct (b) Incorrect
(c) Partly Correct (d) None of them
8. The process of removing the surface layer (floss) of Cocoon and to find out the actual reelable filament end, before reeling is
(a) Stifling (b) Brushing
(c) Cooking (d) Dying
9. _____ Cocoons are not reelable.
(a) Muga (b) Tasar
(c) Mulberry (d) Eri
10. Muga Cocoons are formed with continuous filament of
(a) 1000-1200 m. (b) 500-700 m.
(c) 350-550 m. (d) 300-400 m.

11. For production of 1 kg. of Muga Raw Silk, _____ are required.
(a) 4500-5500 cocoons (b) 1500-1550 cocoons
(c) 450-550 cocoons (d) 1200-1300 cocoons
12. Traditional Muga reeling machine/device is
(a) Charkha (b) Bhir
(c) Cottage Basin (d) Ushnakothi
13. Cocoon cooking is to remove _____ present on the Silk filament.
(a) Fibroin (b) Floss
(c) Sericin (d) Colour
14. In the three pan cooking, the three basins are filled with water and the temperature set at _____ in the first and last pan.
(a) 60°C – 65°C (b) 70°C – 80°C
(c) 50°C – 55°C (d) 90°C – 95°C
15. Denier is a unit used to determine the fibre _____.
(a) Length (b) Thickness
(c) Height (d) Brightness
16. Fibroin is an insoluble _____ present in the Silk.
(a) Amino Acid (b) Nitrogen
(c) Protein (d) Sericin
17. Cocoon are stifled _____.
(a) to emerge to pupae (b) to kill the pupae
(c) destroy cocoon (d) to degumming of the cocoon
18. The number of Kilograms of fresh cocoon required to produce 1 kg. of Raw Silk is called
(a) Denier (b) Bivoltine
(c) Sericin (d) Renditta
19. _____ is the best method of cocoon drying/stifling.
(a) Sun drying (b) Hot-Air stifling/drying
(c) Steam stifling (d) Cooling
20. India produces _____ kinds of Silks.
(a) Two (b) Five
(c) Three (d) Four
21. What are Vanya?
(a) Mulberry & Eri (b) Muga & Eri
(c) Mulberry & Muga (d) Muga, Eri & Tasar
22. In Automatic Reeling Machine (ARM), the production of raw silk can be increased with less labour, compared to Multi- End Reeling Machine.
(a) Incorrect (b) Correct
(c) Partly Correct (d) None of these
23. Reeling Machine used at Reeling & Spinning Factory, Zemabawk under Sericulture Department is
(a) Automatic Reeling Machine (ARM) (b) Multi-End Reeling Machine
(c) Cottage Basin (d) Charkha
24. _____ Cocoons are best suited for Automatic Reeling Machine (ARM).
(a) Multivoltine (b) Univoltine
(c) Hybrid (d) Bivoltine

25. The raw silk produced in country Charkha is of inferior quality than Multi-End Reeling Machine.
(a) True (b) False
(c) Partly Correct (d) None of these
26. Chawki – Rearing centre is _____.
(a) the centre where, improve late aged worms are produced.
(b) the centre where, healthy and robust young aged worms are produced.
(c) the centre where, improve Mulberry varieties are produced.
(d) the centre where only Bivoltine rearing is conducted.
27. _____ is a decision to make full use of a new idea, practices or technology in the best course of action.
(a) Diffusion (b) Adoption
(c) Innovation (d) Planning
28. _____ is an idea, practice, technology or subject perceived as new by an individual.
(a) Extension (b) Adoption
(c) Innovation (d) Diffusion
29. There are identified _____ stages of the adoption process which received worldwide attention.
(a) Three (b) Six
(c) Two (d) Five
30. The extension activities are carried out by Central Silk Board (CSB) in Mizoram through _____.
(a) RSRS (b) SSPC
(c) TSC (d) REC
31. There are _____ Sericulture Training Institute (STI) functioning in Mizoram.
(a) One (b) Three
(c) Two (d) Five
32. Extension Programme Management comprises _____ distinct components.
(a) Two (b) Four
(c) Three (d) Five
33. _____ is the process of transferring ideas, skills and attitude from one person to another accurately and in satisfied manner.
(a) Adoption (b) Innovation
(c) Communication (d) Perception
34. The return process of communication is called _____ and it plays a very important role in communication.
(a) Feedback (b) Empathy
(c) Perception (d) Adoption
35. The word “Extension” is derived from Latin word and came to be used originally in _____ 1914.
(a) India (b) Japan
(c) USA (d) Israel
36. Extension works must be based on the needs and interest of the people.
(a) Correct (b) Incorrect
(c) Partly Correct (d) None of these
37. The full form of CSB is
(a) Central Sericulture Board (b) Central Silk Board
(c) Central Silk Bureau (d) Central Sericulture Bank

38. Research Extension Centre (REC) in Mizoram is under
(a) CSB (b) State Government
(c) District (d) None of these
39. CSB is under the
(a) Ministry of Agriculture (b) Ministry of Railways
(c) Ministry of Textiles (d) None of these
40. When was the National Extension Service launched in India?
(a) 2nd October, 1953 (b) 25th May, 1947
(c) 26th February, 1973 (d) 20th October, 1952
41. In extension method, individual contact method is relatively expensive, time consuming and low coverage of farmers.
(a) True (b) False
(c) Partly Correct (d) None of these
42. _____ state is now regarded as the Silk Bowl of India.
(a) Assam (b) West Bengal
(c) Jammu & Kashmir (d) Karnataka
43. Presently, about _____ of total working force contributing in Sericulture as worker in raising food plant, leaf collection, silkworm rearing, reeling, spinning is women.
(a) 100% (b) 40%
(c) 60% (d) 80%
44. Sericulture can generate employment upto 11 persons for every Kg of raw silk produced, out of which, more than _____ person are women.
(a) 7 (b) 2
(c) 5 (d) 6
45. Under North Eastern Region Textile Promotion Scheme, empowering of Tribal women is achieved in Mizoram under the project _____.
(a) IMSDP (b) IBSDP
(c) ISDP (d) Aspirational Project
46. For successful rearing of 150 dfl's in Rainfed Mulberry garden, foilage of _____ is required per Ha./yr.
(a) 55-60 (b) 40-45
(c) 45-50 (d) 50-55
47. Existing SOR of Mandays in MGNREGA, Mizoram is
(a) 223 (b) 233
(c) 243 (d) 273
48. Economic return in cultivation of 1 acre Mulberry plantation rearing 5 crops a year Bivoltine @ 100 dfl's/year is
(a) 260 kg. of BV cocoon (b) 240 kg. of BV cocoon
(c) 250 kg. of BV cocoon (d) 230 kg. of BV cocoon
49. Eri Grainage capacity of 25000-30000 seed cocoons can produce _____ nos. of dfl's per operation.
(a) 4000 – 5000 (b) 3000 – 4000
(c) 6000 – 7000 (d) 5000 – 6000

50. Approximate requirement of Labex for rearing 100 dfl's (Mulberry) is
(a) 10 kgs. (b) 20 kgs.
(c) 4 kgs. (d) 15 kgs.
51. Approximate requirement of Mulberry leaf for rearing 100 dfl's (Bi X Multi) is
(a) 800 kgs. (b) 1200 kgs.
(c) 1500 kgs. (d) 500 kgs.
52. 1 Acre of Muga plantation have _____ nos. of sapling excluding 10% mortality.
(a) 400 (b) 500
(c) 550 (d) 450
53. 50 gms of Ashtra is to be dissolved in _____ lts. of water (H₂O) for disinfecting rearing house.
(a) 50 lts. (b) 10 lts.
(c) 100 lts. (d) 200 lts.
54. 1 gm. Of Eri seed is considered as _____ of dfl's.
(a) 1 dfl's (b) 2 dfl's
(c) 3 dfl's (d) 4 dfl's
55. For rearing of 100 dfl's of Cross Beed, Rearing House area required is
(a) 250-300 sq.ft. (b) 200-250 sq.ft.
(c) 300-350 sq.ft (d) 150-200 sq.ft.
56. Doubling bobbins in twisting rotate in the speed of
(a) 5000 – 8000 rpm. (b) 8000 – 10000 rpm.
(c) 10000 – 12000 rpm. (d) 10000 – 15000 rpm.
57. Twisting yarn are subjected to steaming in an/a
(a) Autoclave (b) Steam chamber
(c) Silk Steam Compressor (d) None of the above
58. Incubation forms the _____ step in silkworm seed production.
(a) First (b) Middle
(c) Last (d) None of the above
59. Secondary food plant of Oak Tasar Silkworm is _____ (Champa).
(a) Litsea polyantha (b) Machilus bombycina
(c) Michelia oblonga (d) Quercus incana
60. Leaf blister in Oak Tasar occur during
(a) June & July (b) February & March
(c) October & November (d) April & May
61. Oak Tasar rearing alternate can be done by
(a) Bush rearing (b) Bottle rearing
(c) Branch rearing (d) Outdoor rearing
62. Biological IPM of pink mealy bug in Mulberry pest is release of lady bird beetles, scymnus coccivona @ 500 beetles or cryptolacmus montrouzieri @ 250 beetles/ac./yr. Cost benefit ratio is
(a) 1 : 4 (b) 1 : 2
(c) 1 : 3 (d) 1 : 5
63. Cultivation of Mulberry in 90 × 90 cm spacing of S₁₆₃₅. Cost benefit ratio is
(a) 1 : 2 (b) 1 : 3
(c) 1 : 4 (d) 1 : 5

64. Hormone used for uniform maturity of silkworm is
(a) DDVP (b) Sampoorna
(c) Poshan (d) Samruddhi
65. The Silk Mark is a quality assurance label of pure silk and addition server as a brand for generic promotion of pure silk introduced by
(a) CSB (b) SMOI
(c) MOT (d) R&D, CSB
66. 1 Acre under rainfed Mulberry Sericulture generates about _____ mandays of employment in a year.
(a) 116 (b) 120
(c) 112 (d) 140
67. Prolonged cooking of Multivoltine is _____ for economics of reeling.
(a) Good (b) Bad
(c) Average (d) None of the above
68. Silk Samagra – 2, a Central Sector Scheme for the development of Silk Industry has been approved by the cabinet committee of Economic Affairs on
(a) 19.01.2022 (b) 25.04.2021
(c) 20.03.2022 (d) 24.08.2020
69. Eri Silk Development Project in Mizoram under Silk Samagra – 2 is launched by _____, Member Secretary, CSB on 14.06.2022.
(a) Shri. Rahmahtulla (b) Shri. JC Deka
(c) Shri. Moncy Issac (d) Shri. RR Okhandiar
70. In Mizoram, the role and responsibility of _____ is for Social Mobilization & organizing Self Help Group for Gender Sensitization and Women Empowerment etc.
(a) REC (b) CRC
(c) Seed Organization (d) Open Doors
71. India is the second largest producer of Mulberry Silk next only to
(a) Japan (b) Russia
(c) China (d) Romania
72. The cocoon should be stored in an appropriate storage room for long duration and should have _____ and below temperature.
(a) 20°C (b) 50°C
(c) 40°C (d) 60°C
73. Doubled cocoon are suitable for reeling purposes.
(a) Correct (b) Incorrect
(c) Partly Correct (d) None of these.
74. Acetic Acid and Sodium Sulphate are used for
(a) Acid treatment of silkworm eggs (b) Silk dyeing
(c) Cocoon cooking (d) Moth examination
75. The existing price of Muga Silk Yarn per kg. in Mizoram is
(a) Rs. 10000.00 (b) Rs. 9000.00
(c) Rs. 14000.00 (d) Rs. 15000.00