

# MIZORAM PUBLIC SERVICE COMMISSION

## COMPETITIVE EXAMINATIONS FOR RECRUITMENT TO THE POST OF FOREST RANGER UNDER ENVIRONMENT, FORESTS & CLIMATE CHANGE DEPARTMENT, GOVERNMENT OF MIZORAM, OCTOBER, 2019

### GENERAL SCIENCE - III

Time Allowed: 2 hours

Full Marks: 200

*All questions carry equal marks of 2 each.  
Attempt all questions.*

1. The is the first Microprocessor of India which is designed and developed by the students of IIT (Indian Institute of Technology) Chennai is called:  
(a) Vishnu (b) Shakti  
(c) In-intel (d) In-Qualcomm
2. During green revolution in India the crops introduced are:  
(a) Pesticide resistant variety crops (b) Drought resistant variety crops  
(c) Insecticide resistant variety crop (d) High Yielding variety crops
3. The first satellite launched by India in 19 April 1975 is called:  
(a) INSAT (b) Rohini  
(c) Aryabhata (d) Bhaskara
4. The Satellite launched by India in 22<sup>nd</sup> May 2019 known as RISAT-2B is to be utilised for:  
(a) Disaster Management and Earth observation (b) Communication 5G technology  
(c) Communication 4G technology (d) Experimental
5. What is the full form of ISRO?  
(a) Indian Scholar Research Organization (b) Indian Space Research Organization  
(c) Indian Station Research Organization (d) None of these
6. Sir CV Raman received Nobel prize in physics in the year:  
(a) 1930 (b) 1931  
(c) 1932 (d) 1933
7. Hargobind Khorana, a biologist, won his Nobel prize for his work in:  
(a) tRNA (b) m RNA  
(c) Genetic Code (d) None of these
8. A famous Indian Physicist who later became the President of India is:  
(a) CV Raman (b) APJ Abdul Kalam  
(c) SN Bose (d) All of these
9. The Code name “Smiling buddha” was assign to:  
(a) India’s policy on Tibet (b) India’s trade policy with china  
(c) India’s first nuclear test (d) India’s first solar power plant

10. To reduce the environmental impact the Government of India reduce tax for electric vehicle. The new GST for electric vehicle in 2019 stands:
- (a) 5% (b) 6%  
(c) 7% (d) 8%
11. The new emission norms revised by Bureau of Indian Standards (BIS) From 1 April 2020 is called as
- (a) BS IV (b) BS V  
(c) BS VI (d) None of these
12. In 2002 Genetically modified cotton was introduced in India to combat which cotton disease:
- (a) Crown gall (b) Black root rot  
(c) Powdery mildew (d) Ball worm
13. The first National Park in India to conserve nature is:
- (a) Kaziranga national park (b) Gir national park  
(c) Jim Corbett national park (d) Madhav national park
14. In BtCotton, the term Bt stands for:
- (a) Bacillus. thermosphericus (b) Bacillus thiaminolyticus  
(c) Bacillus thio-parans (d) Bacillus thuringiensis
15. ICAR stands for:
- (a) Indian Council of Agriculture Research (b) Indian Council of Agricultural Research  
(c) Indian Council of Allied Research (d) Indian Council of Agronomy Research
16. In India If ISI mark is mentioned on the products, it is related to
- (a) Industrial products (b) Processed food  
(c) Non polluting vehicles (d) Agricultural products
17. For safety of the public which body issues FPO mark?
- (a) Bureau of Indian Standard (b) Ministry of Agriculture  
(c) Ministry of Environment and protection (d) Food Safety and Standard Authority of India
18. Indian Institute of Chemical Biology (IICB) is a biomedical research centre set up by CSIR in the year of 1956. It is located in the city of:
- (a) Kolkata (b) Delhi  
(c) Mumbai (d) Hyderabad
19. Black soils is ideal for cultivation of cotton as –
- (a) Its colour is black (b) It can retain moisture  
(c) It is made up of lava (d) It is found on plateau regions
20. Which one of the following most appropriately describes the nature of Green Revolution of late sixties of 20<sup>th</sup> century?
- (a) Intensive cultivation of green vegetable (b) Intensive agriculture district programme  
(c) High-yielding varieties programme (d) Seed-Fertilizer-Water technology
21. Subramanian Chandrashekhar (1910-1995) an Indian scientist awarded a Nobel prize in 1983 work in the field of:
- (a) Quantum mechanics (b) Astrophysics  
(c) Einstein theory of relativity (d) All of these

22. National Science Day is celebrated every year on February to commemorate discovery of the 'Raman Effect', by CV Raman winning the Noble Prize in Physics in 1930. The day is:
- (a) 25<sup>th</sup> February (b) 26<sup>th</sup> February  
(c) 27<sup>th</sup> February (d) 28<sup>th</sup> February
23. Jawaharlal Nehru initiated reforms to promote higher education and science and technology in India and led to the establishment of the Indian Institute of Technology (IIT). The first IIT was established at:
- (a) Delhi (b) Kharagpur  
(c) Mumbai (d) Kolkata
24. In India Biotech parks and incubators were established for:
- (a) Research (b) Translation of research to product  
(c) Entrepreneurship development (d) All of these
25. Which company launched the first mobile phone?
- (a) Motorola (b) Nokia  
(c) Apple (d) At&T
26. The full form of CSIR is:
- (a) Council for Scientific & Industrial Research (CSIR)  
(b) Council of Scientific & Industrial Research (CSIR)  
(c) Council of Science & Industrial Research (CSIR)  
(d) Council for Science & Industrial Research (CSIR)
27. The Wildlife Institute of India (WII) is located at:
- (a) Delhi (b) Kolkata  
(c) Dehradun (d) Shimla
28. ICAR-Directorate of Mushroom research is located at the hillstation:
- (a) Solan, Himachal Pradesh (b) Mussoorie, Uttarakhand  
(c) Shimla, Himachal Pradesh (d) Ooty, Tamil Nadu
29. Indian Science Congress is an annual event organized by:
- (a) Department of Science and Technology  
(b) Ministry of Human Resource Development  
(c) Indian Science Congress Association  
(d) Indian Association For The Cultivation Of Science
30. Sálím Ali Centre is a dedicated centre for the study of:
- (a) Insects (b) Ornithology  
(c) Ocean (d) None of these
31. "Herpetology" is a branch of science which deals with the study of:
- (a) Mammals (b) Aves  
(c) Amhibians (d) Reptiles
32. Penicillin is an antibiotics discovered by:
- (a) Archimedes (b) Alexander Fleming  
(c) Louis Pasteur (d) None of these
33. The structure of DNA was discovered by:
- (a) JD Watson and FHC Crick (b) JD Watson  
(c) FHC Crick (d) Linus Pauling

34. Influenza is a disease caused by:
- (a) Bacteria
  - (b) Fungus
  - (c) Virus
  - (d) Prions
35. United Nations Conference on Environment and Development (1992) al known as Earth Summit was held in the city of:
- (a) Paris
  - (b) Stockholm
  - (c) Kyoto
  - (d) Rio de Janeiro
36. Galileo invented which of the following isntrument?
- (a) Thermometer
  - (b) Barometer
  - (c) Pendulum clock
  - (d) Microscope
37. A resistive touchscreen was developed by inventor:
- (a) E.A. Johnson
  - (b) George Samuel Hurst
  - (c) George Samuel Hurst and E.A. Johnson
  - (d) None of the above
38. L.P.G. is a hydrocarbon consisting of a mixture of:
- (a) Methane and Butane
  - (b) Propane and Butane
  - (c) Ethane and Propane
  - (d) Ethane and Butane
39. Laughing gas used as anaesthesia is a chemical made of:
- (a) Nitrogen
  - (b) Nitrogen Oxide
  - (c) Nitrous Oxide
  - (d) Nitrogen dioxide
40. The Large Hadron Collider (LHC) ,the world’s largest and most powerful particle collider and the largest machine in the world is developed by:
- (a) European Organization for Nuclear Research
  - (b) National Aeronautics and Space Administration
  - (c) Roscosmos State Corporation for Space Activities
  - (d) Indian Space Research Organisation.
41. Which among the following is “Fool’s Gold”?
- (a) Copper Sulphate
  - (b) Iron Sulfide
  - (c) Brass
  - (d) Silver Bromide
42. The cell line used in scientific research HeLa *cells* is the oldest and most commonly used human cell line because of their-
- (a) Easy growth
  - (b) Low nutrition requirements
  - (c) Immortality
  - (d) All of these
43. Lithology is the study of:
- (a) the Earth
  - (b) rocks
  - (c) planets
  - (d) the human skull
44. In the Genetic Code the codon is a:
- (a) Singlet
  - (b) Duplet
  - (c) Triplet
  - (d) Quadruplet
45. Certain bacteria are Nitrosomonas, i.e Fix Nitrogen by oxidizing ammonia into nitrite. Such type of bacteria are?
- (a) Gram positive bacteria
  - (b) Gram negative bacteria
  - (c) Both Gram positive and Gram negative bacteria
  - (d) Arch bacteria

46. Malaria parasite was discovered by  
(a) Sir Ronald Ross (b) Alexander Fleming  
(c) Giovanni Battista Grassi (d) Charles Louis Alphonse Laveran
47. Modern internal combustion engine was patented by  
(a) Nikolaus Otto (b) Thomas Alva Edison  
(c) Etienne Lenoir (d) John Barber
48. The Polymerase Chain Reaction technique is used for amplification and study of DNA and RNA . This technology is patented by  
(a) JD Watson and FHC Crick (b) Craig Venter  
(c) Kary Mullis (d) Maxam and Gilbert
49. The virus responsible for Foot-and-mouth disease virus (FMDV) affects acute vesicular disease of cloven-hoofed animals is  
(a) Coronavirus (b) Picornavirus  
(c) Paramyxoviruses (d) All of the above
50. The scientific name of State bird of Mizoram, Vavu is  
(a) *Syrmaticus humiae* (b) *Syrmaticus mikado*  
(c) *Syrmaticus reevesii* (d) *Syrmaticus soemmerringii*
51. The Baptist Missionary at Serkawn who made an effort to retain *Zawlbuk* was  
(a) JH Lorraine (b) FW Savidge  
(c) F.J Rapper (d) William Williams
52. Who among the following do not have *Zawlbuk*  
(a) Lusei (b) Lakher  
(c) Pawi (d) Paite
53. *Ramtuk rel-* refers to-  
(a) Selection of a place for establishment of village (b) Selection of agricultural land  
(c) Selection of a place for establishment of *Zawlbuk* (d) Selection of a place where people meet
54. Potato was introduced only in the Colonial Era (1907-1908) by  
(a) General Cole (b) TH Lewin  
(c) David Jones (d) Capt Browne
55. Which of the following is a slave that belonged to the Mara (Lakher)?  
(a) Sei- who lived in the house of the ruler (b) Saiza-who lived in a separate house  
(c) Both (a) and (b) (d) None of the above
56. F.W. Savidge and J.H Lorrain were missionaries sent by Aborigines Mission known as Arthington Mission in the year  
(a) 1894 (b) 1895  
(c) 1885 (d) 1886
57. The killing of Captain Browne in 1890 was considered as a result of Mizo's Objection to  
(a) Forced Taxation (b) The Kuli System  
(c) Removal of their chief (d) Harsh treatment of Captain Browne
58. The first book printed and published in Mizo language was:  
(a) Book of Psalm (b) Esop's Fable  
(c) A Child's Primer (d) Book of Stories

59. Who was the first pastor in 1914?  
(a) Chhuahkhama (b) Liangkhaia  
(c) Chalthanga (d) Ngura
60. *Kristian Tlangau* was first published in-  
(a) 1910 (b) 1911  
(c) 1912 (d) 1913
61. The Revival Movement resulted in the emergence of many indigenous sects, the first of which was  
(a) Vanawia Pawl (b) Mangthanga Pawl  
(c) Tlira Pawl (d) Zualliana Pawl
62. Which of the following Act excluded the Lushai Hills from India Union which alienated the Mizo people from the mainstream of India?  
(a) Govt. of India Act, 1930 (b) Govt. of India Act, 1931  
(c) Govt. of India Act, 1934 (d) Govt. of India Act, 1935
63. When was the Lakher Dictionary published?  
(a) 1912 (b) 1913  
(c) 1905 (d) 1906
64. What is the month of July in Mizo?  
(a) Tau thla (b) Tomir thla  
(c) Nikir thla (d) Vawkhniakzawn thla
65. Alexandrapore tea garden was attacked by the Mizo:  
(a) On 23<sup>rd</sup> January 1871 (b) On 24<sup>th</sup> March 1872  
(c) On 15<sup>th</sup> June 1880 (d) On 16<sup>th</sup> June 1880
66. The first President of *Young Lushai Association* was:  
(a) JH Lorraine (b) FW Savidge  
(c) Rev L. Evans (d) NE Parry
67. *Mizo National Famine Front* was converted into a political party called *Mizo National Front* on:  
(a) 22<sup>nd</sup> October 1961 (b) 2<sup>nd</sup> October 1961  
(c) 4<sup>th</sup> May 1963 (d) 8<sup>th</sup> March 1965
68. The first known massive famine in Mizoram called Mautam occurred in the year:  
(a) 1860 (b) 1861  
(c) 1870 (d) 1871
69. A Mizo bride should not enter into the bridegroom's house without bringing this special cloth:  
(a) Puanchei (b) Hmar-am  
(c) Zawlpuan (d) Puanzeh
70. The traditional Mizo tax, paid to the chief in the form of paddy at the end of the year is:  
(a) Lo man (b) Fano chhiah  
(c) Buh chhun (d) Fathang
71. The Mizo Chief may be punished by his rebellious citizens in the case of the former's misbehavior towards his people. This punishment was known as:  
(a) Sawi (b) Hnawhchhuah  
(c) Ram (d) Zawn

72. Due/Extra fine imposed on the loser of the case in the Mizo chief's court equivalent to Rs. 5/- or a pig is called:
- (a) Ram (b) Salam  
(c) Pumhlawh (d) Rawk
73. A cluster of megaliths found near Vangchhia village declared as National importance of heritage of India is:
- (a) Kawtchhuah ropui (b) Lamthuam thum  
(c) Lamsial Puk (d) Chhura Puk
74. The Mizo language belongs to this language group:
- (a) Tibeto-Burman (b) Mongoloid group  
(c) Burmese- Chin Group (d) Indo-Aryan group
75. "Mizo Chanchin" was written by:
- (a) Vankhama (b) Liangkhaia  
(c) Vanchhunga (d) VL Siama

**Direction (Questions No. 76 - 79) : Find the wrong term in the given series:**

76. 3, 7, 15, 27, 63, 127, 225
- (a) 7 (b) 15  
(c) 27 (d) 63
77. 64, 71, 80, 91, 104, 119, 135
- (a) 71 (b) 80  
(c) 104 (d) 135
78. 5, 10, 40, 80, 320, 550, 2560
- (a) 80 (b) 320  
(c) 550 (d) 2560
79. 89, 78, 86, 80, 85, 82, 83
- (a) 83 (b) 82  
(c) 86 (d) 78

**Direction (Questions No. 80 - 83) : Find the missing number from the given series:**

80. 121, 225, 361, .....?.....
- (a) 385 (b) 441  
(c) 485 (d) 529
81. 1, 6, 13, 22, 33, ...?...
- (a) 44 (b) 45  
(c) 46 (d) 47
82. 1, 4, 9, 16, 25, ...?...
- (a) 35 (b) 36  
(c) 48 (d) 49
83. 2, 5, 9, ..?..., 20, 27
- (a) 14 (b) 16  
(c) 18 (d) 24





88. According to his psychiatrist, which of the following is not true of Ted Bundy?

- (a) He was not motivated by a need to help himself
- (b) He needed to be the star of the show
- (c) He didn't understand the charges against him
- (d) He was cheerful

89. 'Jovial' has the same meaning as ....

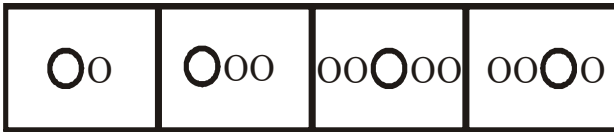
- (a) active
- (b) happy
- (c) guilty
- (d) remorse

90. The antonym for 'comatose' is ...

- (a) energetic
- (b) lifeless
- (c) exhausted
- (d) passed out

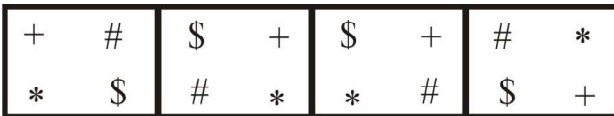
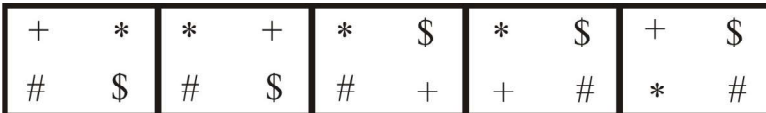
**Direction (Questions No. 91 - 95) : Given below are problem figures. Choose the best alternative among the answer figures:**

91.



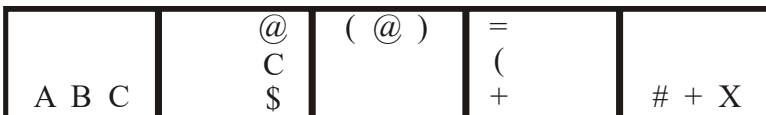
- (a)
- (b)
- (c)
- (d)

92.



- (a)
- (b)
- (c)
- (d)

93.



- (a)
- (b)
- (c)
- (d)

94.

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- (a) (b) (c) (d)

95.

A B	A B	B A	B A	B A
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B A	A B	A B	B A
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- (a) (b) (c) (d)

**Direction (Questions No. 96 - 100) : Choose the best answer to each of the questions:**

96. A man was going towards west, and then he turned left, then turned 90° in anti clockwise direction. In which direction is he going now?

- (a) North (b) East  
(c) West (d) South

97. Simon starts from his house and walks westward. He then takes a left turn and then a right, before each turn he walks 5 km. In which direction is he walking now?

- (a) North (b) South  
(c) West (d) East

98. If the following words are arranged in alphabetical order, which word will come third?

- (a) Rumbustious (b) Rumour  
(c) Ruminare (d) Rurple

99. P, Q, R, S, T, U, V and W are friends. They are sitting around a round table. P is sitting between U and V, Q is sitting between W and T, R is sitting to the third left of T and, W is sitting to the third right of S. How many persons are sitting between R and S?

- (a) 3 (b) 4  
(c) 5 (d) 6

100. What is the missing number?

6	4	7
1	2	5
7	6	?

- (a) 8 (b) 10  
(c) 12 (d) 14