

**MIZORAM PUBLIC SERVICE COMMISSION**

**MIZORAM GROUP 'B' (GAZETTED) GENERAL SERVICES (COMBINED  
COMPETITIVE) EXAMINATIONS UNDER VARIOUS DEPARTMENT,  
GOVERNMENT OF MIZORAM, JULY-2024**

**GENERAL STUDIES PAPER-III**

Time Allowed : 3 hours

FM : 100

**SECTION - I (Multiple Choice questions) (100 Marks)**

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

*This Section should be answered only on the OMR Response Sheet provided.*

1. A child is swinging back and forth on a playground swing. At what point in the swing's motion is the speed of the child at its maximum?  
(a) At the lowest point of the swing (b) At the highest point of the swing  
(c) Midway between the highest and lowest points (d) Speed is constant throughout the swing
2. Which of the following is a chemical change?  
(a) Melting of ice (b) Boiling of water  
(c) Dissolving sugar in water (d) Rusting of iron
3. Which of the following is not an objective of the Chandrayaan 3 Mission?  
(a) To demonstrate Safe and Soft Landing on Lunar Surface.  
(b) To demonstrate Rover roving on the moon.  
(c) To conduct in-situ scientific experiments.  
(d) To study the lunar atmosphere.
4. What type of biological molecule acts as a catalyst, speeding up chemical reactions in living organisms?  
(a) Enzyme (b) Hormone  
(c) Antibody (d) Lipid
5. What is the primary goal of Machine Learning (ML)?  
(a) To replicate human intelligence exactly  
(b) To automate tasks without human intervention  
(c) To enable computers to learn from data and improve performance over time  
(d) To create robots that can think and feel like humans
6. A specific learning technique that require several layers of neurons to increase learnable parameters with huge datasets is called -  
(a) Machine learning (b) Artificial Neural Network  
(c) Deep learning (d) Python

7. A technique to generate high-resolution surface image of earth by expanding the radar aperture through motion of the mounting vehicle and the image quality not being affected by weather condition is -
  - (a) Light Detection and Ranging
  - (b) Synthetic Aperture Radar
  - (c) Optical Telescopic Vision
  - (d) Electron Macroscopy
8. What is the ambitious plan approved by the government of India in 2006 for improving services provided to the people by the government through the use of Information Technology?
  - (a) National e-Governance Plan
  - (b) e-Lekha Plan
  - (c) Bharat e-Gov Plan
  - (d) Indian e-Governance Development Plan
9. Regarding which ransomware virus, the CERT-in issued advisory?
  - (a) Akita
  - (b) Akira
  - (c) Antaki
  - (d) Kimino
10. Which underlying technology powers interactive AI such as ChatGPT, etc.?
  - (a) Quantum computing
  - (b) Artificial Neural Networks (ANNs)
  - (c) Blockchain
  - (d) Genetic algorithms
11. Who is the father of Indian nanotechnology?
  - (a) Shrinivas Ramanujan
  - (b) Prof. C.N.R. Rao
  - (c) C.V. Raman
  - (d) Amartya Sen
12. National Technology Day is observed every year on which date?
  - (a) 28 February
  - (b) 11 May
  - (c) 16 February
  - (d) 17 August
13. During the Pokhran – II nuclear test on 11<sup>th</sup> May 1998, how many nuclear bombs were successfully tested?
  - (a) 3
  - (b) 4
  - (c) 5
  - (d) 6
14. *Cryoductylus vairengtensis* is the new \_\_\_\_\_ endemic to Mizoram discovered in Mizoram in November 2023.
  - (a) Fish species
  - (b) Orchid species
  - (c) Gecko species
  - (d) Earthworm
15. India joined the Artemis Accords (an international effort on space exploration led by NASA) on which date?
  - (a) 21<sup>st</sup> June 2023
  - (b) 7<sup>th</sup> September 2023
  - (c) 12<sup>th</sup> January 2024
  - (d) 22<sup>nd</sup> March 2024
16. A laboratory-based technology that involves the alteration of an organism's DNA is termed as -
  - (a) Cell therapy
  - (b) Gene therapy
  - (c) Genetic Engineering
  - (d) Stem Cell Engineering
17. The name of the programme launched to promote Artificial Intelligence in India:
  - (a) ChatGPT
  - (b) Pytorch
  - (c) INDIAai
  - (d) BharatAI

18. The technology developed by Dr Lalji Singh that found wide application in forensic investigation is -  
(a) DNA finger printing technology (b) Restriction enzyme technology  
(c) DNA barcoding technology (d) Whole genome sequencing technology
19. A new species of deep-sea isopod, *Brucethoa Isro*, named after the Indian Space Research Organisation was discovered in which South Indian state?  
(a) Andhra Pradesh (b) Tamil Nadu  
(c) Karnataka (d) Kerala
20. The Indian lip-syncing humanoid robot invented by Ranjit Shrivastava, a Ranchi-based software engineer is -  
(a) Shalu robot (b) Rashmi robot  
(c) Sophia (d) Mitra
21. In ancient Mizo tradition, sacrifice offered in order to receive blessing in farming is called-  
(a) Kawngpui siam (b) Fano dawi  
(c) Khawkheng thawi (d) Dawino chhui
22. In early Mizo society, women were not supposed to enter -  
(a) Zawlbuk (b) Pum  
(c) Sunhmun (d) Se huang
23. Grouping of villages was introduced in Mizoram from -  
(a) March, 1966 (b) April, 1966  
(c) January, 1967 (d) April, 1967
24. The complete translation of the Bible into Mizo language was published in the year -  
(a) 1956 (b) 1957  
(c) 1958 (d) 1959
25. The first newspaper published in Mizoram was-  
(a) Mizo leh Vai Chanchinbu (b) Mizo Chanchin Laisuih  
(c) Zoram Thupuan (d) MZP Chanchinbu
26. Which of these is a Mizo musical instrument?  
(a) Tungchaw (b) Berhbu  
(c) Lemlawi (d) Chunchi
27. In early Mizo tradition, to adopt the religion of another clan is called-  
(a) Sakung (b) Sedawi  
(c) Saphun (d) Sekhuan
28. Mizo Academy of Letter's Book of the Year, 2023 recipient is-  
(a) Zohmangaihi (b) Ahmangaihi Khiangte  
(c) Lalhruaitluanga Chawngte (d) Lalrammawia Ngente
29. Which one of the following is Mizoram state animal?  
(a) Sathar (b) Sakei  
(c) Saza (d) Sazuk

30. A flask made from the horn of a bison or mithun used to carry gunpowder is-
- (a) Fungki (b) Kingkawt  
(c) Sahmim (d) Paitung
31. The Superintendent of Lushai Hills, author of '*Lushai Chrysalis*' is-
- (a) AG McCall (b) Lt. Col. Treagear  
(c) NE Parry (d) ARH McDonald
32. The first political party, Mizo Union was established in-
- (a) 1946 (b) 1947  
(c) 1948 (d) 1945
33. The Lakher Pioneer Mission was started by-
- (a) JH Lorrain (b) FW Savidge  
(c) DE Jones (d) RA Lorrain
34. Which expedition was sent to the Lushai Hills in retaliation to the capture of Mary Winchester?
- (a) The Lushai Expedition of 1871-72 (b) The Expedition of 1869  
(c) The Chin-Lushai Expedition 1889 -1890 (d) The Lister's Expedition 1850
35. The Mizo gave T.H. Lewin a nickname (Mizo name) called-
- (a) Tarmita (b) Thangliana  
(c) Lalmantua (d) Sap Upa
36. Who was responsible for the abolition of Bawi in Mizoram?
- (a) J. Shakespeare (b) A.G. Mc Call  
(c) Peter Fraser (d) ARH McDonald
37. The great darkness that happened in the earth in Mizo folktale was called-
- (a) Khawzing (b) Thimzing  
(c) Thlazing (d) Khawzim
38. The Mizo spinning wheel for spinning cotton into yarns is called-
- (a) Suvel (b) Herawt  
(c) Ladinlek (d) Hmui
39. The first and only person among the Mizos who has received '*Padma Bhushan*' is-
- (a) Brig. T. Sailo (b) Rev. Dr. Zairema  
(c) PS Chawngthu (d) Capt. LZ Sailo
40. 'Khuallam' is also known as-
- (a) Chawnglaizawn (b) Solakia  
(c) Thingdim (d) Chai

**Directions (Question No. 41): What comes in place of questions mark(?) in the series given below?**

41. AZ, BY, CX, ?
- (a) EW (b) DW  
(c) GH (d) EU

**Directions (Question No. 42):** In the following question, two words are paired which have a certain relation. Select a correct option to substitute a question mark, so as to make a similar relational pair with the word given after double colon (: :)

42. Right : Duty : : Power : ?

- (a) Wrong (b) Powerless  
(c) Weak (d) Liability

43. Find out how will the key figure (X) look like after rotation.



(X)



(1)

(2)

(3)

(4)

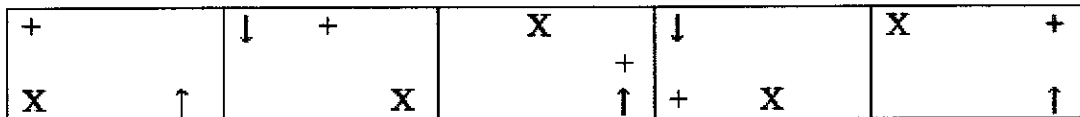
- (a) 1 (b) 2  
(c) 3 (d) 4

44. Oar is to rowboat as foot is to:

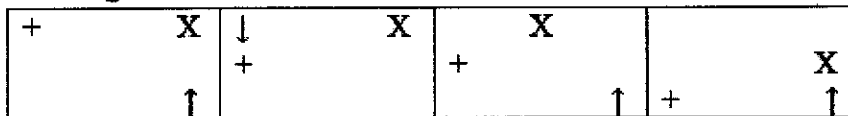
- (a) Running (b) Sneaker  
(c) Skateboard (d) Jumping

**Directions (Question No. 45):** In the questions given below, find the correct answer out of the four answer figures, if the problem figures continue in the same sequence.

45. Problem Figures



Answer Figures



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

**Directions (Question Nos. 46 & 47) :** Find the missing term in each of the following series:

46. 1, 2, 9, 28, ...?..., 126, 217

- (a) 65 (b) 271  
(c) 56 (d) 172

47. 44, 40, 34, ...?..., 16, 4

- (a) 26 (b) 21  
(c) 28 (d) 19

**Directions (Question. Nos. 48 - 50): Each of the following questions consists of a pair of words. Establish the relationship among the given pair and identify the pair that best illustrates a similar relationship from amongst the alternatives.**

48. Libertine : Immortality ::

- (a) victim : depravation  
(c) altruist : selflessness

- (b) miser : selfishness  
(d) policeman : law

49. Author : Manuscript ::

- (a) optician : eyesight  
(c) architect : blueprint

- (b) engineer : bridge  
(d) doctor : stethoscope

50. Tally : Votes ::

- (a) census : population  
(c) taxation : revenue

- (b) government : administration  
(d) team : sports

### **SECTION - II (100 Marks)**

*Mark for each question is indicated against it*

#### **UNIT-A**

*This Unit should be answered only on the **Separate Sheet** provided.*

*Attempt any 2 (two) questions.*

1. Discuss the role of science and technology in revolutionizing agriculture in India and how the scientific advancements and technological innovations transformed agricultural practices, productivity, and sustainability in the country. Illustrate your answer with specific examples of key developments and their impacts on food security and rural livelihoods. **(10+10=20)**
2. Discuss the primary issues of concern regarding climate change, including its impacts on global temperatures, sea levels, weather patterns, and biodiversity. Additionally, examine how the adoption and expansion of renewable energy sources contribute to mitigating climate change and energy security by reducing greenhouse gas emissions. **(10+10=20)**
3. Discuss the potential consequences of Artificial Intelligence (AI) on the global job market in the next decade. Also discuss how the AI-driven automation could affect employment rates in India and what strategies can be implemented to mitigate its potential negative impacts. **(10+10=20)**
4. Discuss the role of Technology in the improvement of governance in India, stressing on how each specific technology is used in certain areas. Also discuss the areas where we are lagging and suggest for improvements. **(10+10=20)**

**UNIT-B**

*This Unit should be answered only on the Separate Sheet provided.*

*Attempt any 2 (two) questions.*

5. Examine the social hierarchy in traditional Mizo society. (20)
6. Write the emergence, function and importance of *Zawlbuk* in traditional Mizo society. How did it decline? (15+5=20)
7. Discuss the negative and positive impact of insurgency in Mizoram (Rambuai). (10+10=20)
8. Describe the contribution of missionaries (Zosap) for the growth of education in Mizoram. (20)

**UNIT-C**

*This Unit should be answered only on the Separate Sheet provided.*

*Attempt all questions.*

**Directions (Question Nos. 9 & 10):** In the question given below, find the correct answer out of the four answer figures, if the problem figures continue in the same sequence.

9. Problem Figures (2)

□	□ ▲	□ ▲ O	□ ▲ \$ O	□ ▲ x O \$
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Answer Figures

□ ▲ \$ O x &	x □ \$ ▲ O &	□ ▲ & O \$ x	▲ □ O & \$ x
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- (a)                      (b)                      (c)                      (d)

10. Problem Figures (2)

→	←	←	←	←
→	→	→	→	→
→	→	←	←	←
→	→	→	→	→
→	→	→	←	←
→	→	→	→	←

Answer Figures

→	←	←	←
→	→	→	→
←	←	→	←
→	→	→	←
←	←	←	←
←	←	←	←

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

11. Draw a pie chart with the following information and also answer the question given below

- Information:
- A- Printing costs (35%)
  - B- Cost of paper (10%)
  - C- Miscellaneous (4%)
  - D- Royalty (15%)
  - E- Advertisement charges (18%)
  - F- Binder's charges (18%)

If the miscellaneous charges are Rs. 6000, how much is the advertisement charges? (3)

12. If a man were to sell his wrist watch for Rs. 720, he would lose 25%. At what price he must sell it to gain 25%? (3)

13. Fill in the blanks with appropriate words.

Today, most businessmen are very worried. To begin with, they are not used to competition. In the past they sold whatever \_\_\_\_\_ produced at whatever prices they chose. But \_\_\_\_\_ increasing competition, customers began to \_\_\_\_\_ and choose. Imports suddenly became \_\_\_\_\_ available and that too at cheaper prices. (4)

**Directions (Question No. 14) :** In the following question choose the word which best expresses the meaning of the given word.

14. AUGUST (2)

- (a) Dignified
- (b) Common
- (c) Petty
- (d) Ridiculous

**Directions (Question Nos. 15 & 16):** In each question given below are two statements followed by two conclusions numbered I and II. You have to take the two given statements to be true even if they seem to be at variance from commonly known facts and decide which of the given conclusion (s) logically follow (s) from the two given statements, disregarding commonly known facts. Give your answer :

15. Statements I. Some bikes are trucks (2)

II. All trucks are trains

Conclusions I. Some bikes are trains

II. No truck is a bike

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either I or II follows
- (d) If both I and II follows

16. Statements I. All girls are ships (2)

II. Some ships are cupboards

Conclusions I. Some ships are girls

II. Some cupboards are not ships

- (a) If only conclusion I follows
- (b) If only conclusion II follows
- (c) If either I or II follows
- (d) If both I and II follows