



**OFFICE OF THE ENGINEER-IN-CHIEF
PUBLIC HEALTH ENGINEERING DEPARTMENT
AIZAWL : MIZORAM**

**WRITTEN EXAMINATION : 2025
FOR THE POST OF**

**ANALYST (LAB)
(Regular)**

PAPER-I

Code No: _____
(For Official Use)

Signature of Invigilator

SUBJECT (Part)	MARKS OBTAINED
Part-A General Knowledge (50x2=100 marks)	
Part-B General English (25x2=50 marks)	
Part-C English Comprehension (20 marks)	
Part-D Essay Writting (30 marks)	
Total Marks obtained (Full Marks-200)	

Signature of Examiner



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Code No: _____
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Roll No: _____
(To be filled in by Candidate)

Signature of Candidate

Signature of Invigilator

Instructions:

1. The question paper will also serve as the answer sheet. Candidates are required to answer Parts A, B, and C directly on the question/answer sheet using tick (✓) marks. For Part-D (Essay Writing), a separate blank answer sheet will be provided for writing answers.
2. Time : 3 Hours

PART-A : GENERAL KNOWLEDGE (50X2=100 Marks)

1. Where was India's first helicopter ambulance service launched?
(a) AIIMS New Delhi ☐ (b) AIIMS Jaipur ☐
(c) AIIMS Rishikesh ☐ (d) AIIMS Bilaspur ☐
2. Bangladesh has won the SAFF Women's Championship 2024 title by defeating which country?
(a) Nepal ☐ (b) Bhutan ☐
(c) India ☐ (d) Myanmar ☐
3. Which country developed the world's first wooden satellite named LignoSat?
(a) Japan ☐ (b) Russia ☐
(c) China ☐ (d) Israel ☐
4. What is the name of the weather phenomenon that recently caused catastrophic flooding in Spain?
(a) DANA storm ☐ (b) El Niño ☐
(c) La Niña ☐ (d) None of the Above ☐
5. Which state has recently approved a 35% reservation for women in all state government recruitments?
(a) Odisha ☐ (b) Jharkhand ☐
(c) Madhya Pradesh ☐ (d) Rajasthan ☐
6. The first Indian Mathematician who treated Mathematics as a different discipline?
(a) Varahmihira ☐ (b) Aryabhatta ☐
(c) Ramanujan ☐ (d) Baudhayan ☐
7. Who is also famous as the conqueror of land between the two seas?
(a) Chandragupta Maurya ☐ (b) Bimbisara ☐
(c) Bindusara ☐ (d) Ashoka ☐
8. When were Ellora caves designated a UNESCO World Heritage site?
(a) 1984 ☐ (b) 1995 ☐
(c) 1983 ☐ (d) 2001 ☐
9. Which of the following was the last Mughal ruler?
(a) Akbar II ☐ (b) Shah Alam II ☐
(c) Ahmad Shah ☐ (d) Bahadur Shah II ☐
10. What is the maximum number of candidates an EVM machine can support?
(a) 36 ☐ (b) 56 ☐
(c) 64 ☐ (d) 72 ☐
11. Which of the following is not appointed by the President of India?
(a) Prime Minister ☐ (b) Chief Election Commissioner ☐
(c) Vice-President ☐ (d) Governor ☐

12. Why Panchayati Raj system was adopted?
 (a) To make people aware of politics ☐
 (b) To decentralize the power of democracy ☐
 (c) To educate the peasants ☐
 (d) To introduce a form of local self-government at the village, block and district levels ☐
13. What is the strength of judges of Supreme Court at present?
 (a) 29 ☐ (b) 31 ☐
 (c) 34 ☐ (d) 35 ☐
14. Who is the constitutional head of the state?
 (a) Governor ☐ (b) Chief Justice of High Court ☐
 (c) Chief Minister ☐ (d) President ☐
15. Who is the chairman of NITI Aayog?
 (a) President ☐ (b) Vice President ☐
 (c) Prime Minister ☐ (d) Speaker ☐
16. GST is a type of which of the following?
 (a) Direct tax ☐ (b) Indirect tax ☐
 (c) It depends on the goods and services ☐ (d) It depends on the associate states ☐
17. To become a member of the Rajya Sabha a person should be at least _____ years old.
 (a) 18 ☐ (b) 30 ☐
 (c) 36 ☐ (d) 24 ☐
18. Which of the following is a peninsular river of India?
 (a) Gandak ☐ (b) Kosi ☐
 (c) Krishna ☐ (d) Sutlej ☐
19. Which country has the largest coastline?
 (a) USA ☐ (b) Australia ☐
 (c) Canada ☐ (d) India ☐
20. Which of the following types of soil are mostly confined to river basins and coastal plains of India?
 (a) Alluvial soil ☐ (b) Black soil ☐
 (c) Laterite soil ☐ (d) Red soil ☐
21. The most fertile region of India is-
 (a) the Himalayas ☐ (b) the central Highlands ☐
 (c) the Indo-Gangetic plain ☐ (d) peninsular plateau ☐
22. Which of the following crops is regarded as a plantation crop?
 (a) Coconut ☐ (b) Cotton ☐
 (c) Rice ☐ (d) Sugarcane ☐
23. Which sector is the largest source of employment in India?
 (a) Services ☐ (b) Agriculture ☐
 (c) Tourism ☐ (d) Government ☐

24. Fiscal Policy in India is formulated by
 (a) the Finance Ministry ☐ (b) the Reserve Bank of India ☐
 (c) NITI Aayog ☐ (d) the Securities and Exchange Board of India ☐
25. The term “Open Unemployment” is used when:
 (a) people are not willing to work ☐
 (b) people are willing but not get work ☐
 (c) people leave their jobs in search of better ones ☐
 (d) people get the jobs but no regular payments ☐
26. Which among the following is non edible oil seeds?
 (a) Sesame ☐ (b) Sunflower ☐
 (c) Linseed ☐ (d) Groundnut ☐
27. In which city cement production was first started in India?
 (a) Madras ☐ (b) Porbandar ☐
 (c) Mumbai ☐ (d) Nagpur ☐
28. Barometer is used to measure:
 (a) atmospheric pressure ☐ (b) Sea level ☐
 (c) waterpressure ☐ (d) flying height of airplanes ☐
29. What is the chemical formula of edible salt?
 (a) NaHCO_3 ☐ (b) Na_2CO_3 ☐
 (c) KCl ☐ (d) NaCl ☐
30. Which of the following produces growth hormones?
 (a) Pineal gland ☐ (b) Adrenal gland ☐
 (c) Pituitary gland ☐ (d) Pancrease ☐
31. Which of these bones is not a part of human ear?
 (a) Incus ☐ (b) Femur ☐
 (c) Stapes ☐ (d) Mallcus ☐
32. Sea of Tranquility is located in which of the following place?
 (a) Mars ☐ (b) Moon ☐
 (c) Saturn ☐ (d) Arctic Area ☐
33. Who is the current Minister of Public Health Engineering Department in Mizoram?
 (a) K.Sapdanga ☐ (b) C.Lalsawivunga ☐
 (c) Lalnghinglova Hmar ☐ (d) Prof. Lalnilawma ☐
34. The lightest element, least dense and most reductant is - .
 (a) Hydrogen ☐ (b) helium ☐
 (c) lithium ☐ (d) pentium ☐
35. Iga Swiatek, who recently won French Open 2024 women’s title, belongs to which country?
 (a) Ireland ☐ (b) Poland ☐
 (c) China ☐ (d) India ☐
36. Which sport’s competition is known as the “Walker Cup”?
 (a) Tennis ☐ (b) Golf ☐
 (c) Badminton ☐ (d) Cricket ☐
37. The ozone is present in which layer of the atmosphere?
 (a) Troposphere ☐ (b) Stratosphere ☐
 (c) Mesosphere ☐ (d) Exosphere ☐

38. Mahatma Gandhi National Rural Employment Guarantee Act (NREGA) was passed In which year
 (a) 2005 ☐ (b) 2006 ☐
 (c) 2007 ☐ (d) 2008 ☐
39. The strength of Council of Minister in Mizoram is
 (a) 8 ☐ (b) 12 ☐
 (c) 21 ☐ (d) 40 ☐
40. National Highway - 54 (NH-54) connecting Mizoram and Assam is now renamed as-
 (a) NH-96 ☐ (b) NH-106 ☐
 (c) NH-206 ☐ (d) NH-306 ☐
41. The first Missionary who set his foot on the soil of Mizoram was
 (a) Rev. JH Lorrain ☐ (b) Rev. William Williams ☐
 (c) Rev. D.E. Jones ☐ (d) Rev. F.J. Raper ☐
42. Zawlbuk was officially ended on
 (a) 1 January 1938 ☐ (b) 1 January 1939 ☐
 (c) 2 January 1938 ☐ (d) 3 January 1939 ☐
43. An individual or an organization selected under the *Mizoram Bana Kaih (Handholding Scheme, 2024)* is called
 (a) Progress Partner ☐ (b) Development Partner ☐
 (c) Progress Loanee ☐ (d) Progress Entrepreneur ☐
44. The first batch of Mizo tribes who migrated from Chin Hills into the present Mizoram -
 (a) Hmar ☐ (b) Ralte ☐
 (c) Lusei ☐ (d) Lai ☐
45. *Mizo Chanchin*, first published in 1938, was written by:
 (a) K.Zawla ☐ (b) Zatluanga ☐
 (c) R.Vanlawma ☐ (d) Rev.Liangkhaia ☐
46. A bamboo hole used for keeping small articles at Mizo house is
 (a) Paikawng ☐ (b) Tungchaw ☐
 (c) Dumbur ☐ (d) Tuithawl ☐
47. A particular tree for hanging the heads of the enemies killed in a war was called
 (a) Thingserh ☐ (b) Tuirual ☐
 (c) Seluphan ☐ (d) Sahlam ☐
48. Who among the following was conferred with the Padma Shri in 2024?
 (a) Lalduhawma ☐ (b) Sangthankima ☐
 (c) Lalsawta ☐ (d) Dr.Ramdinthara ☐
49. '*Khawnglung Run*' in Mizo history occurred during
 (a) Thlanrawn rawt ☐ (b) Vai len vawi khatna ☐
 (c) Chhak leh thlang indo ☐ (d) Chhim leh hmar indo ☐
50. The first Mizo awarded Padma Bhusan was
 (a) James Dokhuma ☐ (b) Capt. L.Z. Sailo ☐
 (c) C. Rokhuma ☐ (d) Lalthagfala Sailo ☐

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PART-B : GENERAL ENGLISH : (25X2=50 Marks)

Directions (Questions 1-5) : Identify the parts of speech of each underlined words:

- | | | | |
|----|--|--------------------------|--|
| 1. | I have <u>tutored</u> him for a week. | | |
| | (a) Noun | ☐ | (b) Verb ☐ |
| | (c) Adjective | ☐ | (d) Adverb ☐ |
| 2. | This Prize is <u>matchless</u> . | | |
| | (a) Adjective | ☐ | (b) Conjunction ☐ |
| | (c) Noun | ☐ | (d) Verb ☐ |
| 3. | They wrote <u>themselves</u> a 'Thank You' note. | | |
| | (a) Pronoun | ☐ | (b) Adjective ☐ |
| | (c) Verb | ☐ | (d) Adverb ☐ |
| 4. | He has hardly <u>any</u> money. | | |
| | (a) Conjunction | ☐ | (b) Preposition ☐ |
| | (c) Adverb | ☐ | (d) Determiner ☐ |
| 5. | The offer was good, <u>still</u> he refused. | | |
| | (a) Determiner | ☐ | (b) Conjunction ☐ |
| | (c) Adverb | ☐ | (d) Preposition ☐ |

Directions (Questions 6-10): Choose the appropriate preposition from the alternatives given under each sentence.

- | | | | |
|-----|--|--------------------------|-------------------------------------|
| 6. | The whole nation is _____ its army. | | |
| | (a) behind | ☐ | (b) beside ☐ |
| | (c) with | ☐ | (d) by ☐ |
| 7. | We make payment____ Cash or kind. | | |
| | (a) by | ☐ | (b) in ☐ |
| | (c) with | ☐ | (d) on ☐ |
| 8. | She came _____ her own Car. | | |
| | (a) in | ☐ | (b) on ☐ |
| | (c) by | ☐ | (d) by ☐ |
| 9. | She came _____ my room without permission. | | |
| | (a) in | ☐ | (b) to ☐ |
| | (c) by | ☐ | (d) into ☐ |
| 10. | I prefer tea_____ coffee | | |
| | (a) than | ☐ | (b) from ☐ |
| | (c) to | ☐ | (d) with ☐ |

Directions (Questions 11 - 15) : Fill in the blanks with appropriate forms of Verbs from the four alternatives given below-

- | | | | |
|-----|----------------------------|--------------------------|------------------------------------|
| 11. | The sun _____ in the east. | | |
| | (a) rises | ☐ | (b) rise ☐ |
| | (c) rose | ☐ | (d) risen ☐ |

12. I _____ a film these days.
 (a) have directed ☐ (b) directed ☐
 (c) have been directing ☐ (d) am directing ☐
13. Newton _____ an apple fall.
 (a) has seen ☐ (b) saw ☐
 (c) seen ☐ (d) have seen ☐
14. While I _____ in the fields, I found a purse.
 (a) was walking ☐ (b) am walking ☐
 (c) walked ☐ (d) had walked ☐
15. She _____ this place by next january.
 (a) will be leaving ☐ (b) will have left ☐
 (c) will left ☐ (d) will have been leaving ☐

Directions (Questions 16 - 20) : Insert appropriate articles if necessary to fill up the gaps.

16. He is _____ FBI agent.
 (a) an ☐ (b) the ☐
 (c) a ☐ (d) none ☐
17. _____ eunuch was dancing at the party.
 (a) a ☐ (b) an ☐
 (c) the ☐ (d) none ☐
18. He is _____ 80 year old man.
 (a) the ☐ (b) a ☐
 (c) an ☐ (d) none ☐
19. She is _____ bride for him.
 (a) a ☐ (b) an ☐
 (c) the ☐ (d) none ☐
20. She is _____ hopeless at tennis.
 (a) the ☐ (b) a ☐
 (c) an ☐ (d) none ☐

Directions (Questions 21 - 25) : Select word which is opposite in meaning to the underlined word or phrase.

21. People differ in terms of their innate abilities.
 (a) acquired ☐ (b) unusual ☐
 (c) external ☐ (d) inner ☐
22. The school disclaimed responsibility of his death.
 (a) deny ☐ (b) accept ☐
 (c) refuse ☐ (d) reject ☐
23. There was a disparity between the two sets of figures.
 (a) inconsistency ☐ (b) discrepancy ☐
 (c) similarity ☐ (d) variance ☐

24. The carpet was quite durable than he imagined.
- | | | | |
|------------------|--------------------------|-----------|--------------------------|
| (a) short-lived | ☐ | (b) tough | ☐ |
| (c) long lasting | ☐ | (d) dumpy | ☐ |
25. He was elavated to officer.
- | | | | |
|--------------|--------------------------|-----------|--------------------------|
| (a) exalted | ☐ | (b) aloft | ☐ |
| (c) superior | ☐ | (d) lowly | ☐ |

PART-C
ENGLISH COMPREHENSION : (10X2=20 Marks)

1. Read the following passage carefully and answer the questions as below:

In the 16th century, an age of great marine and terrestrial exploration, Ferdinand Magellan led the first expedition to sail around the world. As a young Portuguese noble, he served the king of Portugal, but he became involved in the quagmire of political intrigue at court and lost the king's favor. After he was dismissed from service by the king of Portugal, he offered to serve the future Emperor Charles V of Spain. A papal decree of 1493 had assigned all land in the New World west of 50 degrees W longitude to Spain and all the land east of that line to Portugal. Magellan offered to prove that the East Indies fell under Spanish authority. On September 20, 1519, Magellan set sail from Spain with five ships. More than a year later, one of these ships was exploring the topography of South America in search of a water route across the continent. This ship sank, but the remaining four ships searched along the southern peninsula of South America. Finally they found the passage they sought near 50 degrees S latitude. Magellan named this passage the Strait of All Saints, but today it is known as the Strait of Magellan.

One ship deserted while in this passage and returned to Spain, so fewer sailors were privileged to gaze at that first panorama of the Pacific Ocean. Those who remained crossed the meridian now known as the International Date Line in the early spring of 1521 after 98 days on the Pacific Ocean. During those long days at sea, many of Magellan's men died of starvation and disease. Later, Magellan became involved in an insular conflict in the Philippines and was killed in a tribal battle. Only one ship and 17 sailors under the command of the Basque navigator Elcano survived to complete the westward journey to Spain and thus prove once and for all that the world is round, with no precipice at the edge.

- (1) The 16th century was an age of great _____ exploration
- | | |
|---------------|--------------------------|
| A. cosmic | ☐ |
| B. land | ☐ |
| C. mental | ☐ |
| D. common man | ☐ |
- (2) Magellan lost the favor of the king of Portugal when he became involved in a political _____.
- | | |
|-----------------|--------------------------|
| A. entanglement | ☐ |
| B. discussion | ☐ |
| C. negotiation | ☐ |
| D. problem | ☐ |
- (3) The Pope divided New World lands between Spain and Portugal according to their location on one side or the other of an imaginary geographical line 50 degrees west of Greenwich that extends in a _____ direction
- | | |
|--------------------|--------------------------|
| A. north and south | ☐ |
| B. crosswise | ☐ |
| C. south east | ☐ |
| D. north and west | ☐ |

- (4) One of Magellan's ships explored the _____ of South America for a passage across the continent.
- A. coastline ☐
- B. mountain range ☐
- C. physical features ☐
- D. island ☐
- (5) The passage was found near 50 degrees S of _____
- A. Greenwich ☐
- B. the Equator ☐
- C. Spain ☐
- D. Portugal ☐

2. Read the following passage carefully and answer the questions as below:

A fact that draws our attention is that, according to his position in life, an extravagant man is either admired or loathed. A successful business man does nothing to increase his popularity by being prudent with his money. A person who is wealthy is expected to lead a luxurious life and to be lavish with his hospitality. If he is not so, he is considered mean, and his reputation in business may even suffer in consequence. The paradox remains that he had not been careful with his money in the first place; he would never have achieved his present wealth.

Among the low income group, a different set of values exists. The young clerk, who makes his wife a present of a new dress when he has not paid his house rent, is condemned as extravagant. Carefulness with money to the point of meanness is applauded as a virtue. Nothing in his life is considered more worthy than paying his bills. The ideal wife for such a man separates her housekeeping money into joyless little piles – so much for rent, for food, for the children's shoes, she is able to face the milkman with equanimity every, month satisfied with her economizing ways, and never knows the guilt of buying something she can't really afford. As for myself, I fall neither of these categories. If I have money to spare I can be extravagant, but when, as is usually the case, I am hard up and then I am the meanest man imaginable.

- (1) Which of the following would be the most appropriate title for the passage
- A. Being extravagant is always condemnable. ☐
- B. The cause of poverty is extravagance. ☐
- C. Extravagance is a part of the rich as well as of the poor. ☐
- D. Stingy habits of the poor. ☐
- (2) According to the passage the person, who is a successful businessman and wealthy
- A. is expected to have lavish lifestyle. ☐
- B. should not bother about popularity. ☐
- C. is more popular if he appears to be wasting away his time. ☐
- D. must be extravagant before achieving success. ☐
- (3) The phrase 'lavish with his hospitality' in the third sentence of the first paragraph means
- A. Thoughtful in spending only on guests and strangers. ☐
- B. Unconcerned in treating his friends and relatives. ☐
- C. Stinginess in dealing with his relatives. ☐
- D. Extravagance in entertaining guest. ☐

- (4) The word 'paradox' in the last sentence of the first paragraph means
- A. Statement based on the popular opinion ☐
 - B. a statement that seems self-contradictory but in reality expresses a possible truth. ☐
 - C. Statement based on facts ☐
 - D. A word that brings out the hidden meaning ☐
- (5) What is the meaning of the word "equanimity"?
- A. Calmness ☐
 - B. Discomposure ☐
 - C. Equivocal ☐
 - D. Dubious ☐

PART-D
ESSAY WRITTING
(30 Marks)

Write an Essay on any one of the following : (30)

- (a) Importance of Water Purification for our Society.
- (b) Analysis Contamination of Drinking Water
- (c) Importance of Laboratory for Providing of Drinking Water.

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