



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

WRITTEN EXAMINATION : 2025
FOR THE POST OF

**WELDER
(P.E & 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 Writing (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
2. For Part-D (Essay Writing), a separate blank answer sheet will be provided for writing answers.
3. Time : 3 Hours

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

1. Which country recently launched its first national electric vehicle charging network?
(a) India ☐ (b) Estonia ☐
(c) France ☐ (d) Japan ☐
2. Current Minister of PHE Department, Mizoram?
(a) Prof. Tlanglawma ☐ (b) Prof. Lalnikhuma ☐
(c) Prof. Lalnilawma ☐ (d) Prof. Lalnithanga ☐
3. Which tech giant recently unveiled a new line of eco-friendly smartphones?
(a) Apple ☐ (b) Samsung ☐
(c) Google ☐ (d) Xiaomi ☐
4. A major earthquake recently struck which island nation in the Pacific Ocean?
(a) Tonga ☐ (b) Vanuatu ☐
(c) Fiji ☐ (d) Papua New Guinea ☐
5. Which country's Supreme Court has decriminalized abortion across the country?
(a) Qatar ☐ (b) Chile ☐
(c) Mexico ☐ (d) India ☐
6. The ongoing conflict in Ukraine began in:
(a) February, 2022 ☐ (b) March, 2022 ☐
(c) April, 2022 ☐ (d) May, 2022 ☐
7. Which country recently became the first in the world to require social media platforms to verify all online users?
(a) United States ☐ (b) India ☐
(c) Nigeria ☐ (d) Vietnam ☐
8. Which renowned French fashion designer passed away on January 8, 2024?
(a) Karl Lagerfeld ☐ (b) Vivienne Westwood ☐
(c) Christian Dior ☐ (d) Yves Saint Laurent ☐
9. How many states are there in India?
(a) 26 ☐ (b) 27 ☐
(c) 28 ☐ (d) 29 ☐
10. Which of the following is a water soluble vitamin?
(a) Vitamin A ☐ (b) Vitamin C ☐
(c) Vitamin D ☐ (d) Vitamin E ☐
11. Which country recently opened the world's longest suspension bridge?
(a) China ☐ (b) Japan ☐
(c) South Korea ☐ (d) Turkey ☐

12. World AIDS Day was recently celebrated on which date?
 (a) December, 1 ☐ (b) November, 2 ☐
 (c) December, 2 ☐ (d) January, 1 ☐
13. Which Indian city was recently declared a UNESCO World Heritage City?
 (a) Jaipur ☐ (b) Varanasi ☐
 (c) Kolkata ☐ (d) Chennai ☐
14. Under which scheme did the Indian government recently announce financial assistance of Rs. 10,000 to poor farmers?
 (a) Pradhan Mantri Fasal Bima Yojana ☐ (b) Pradhan Mantri Kisan Samman Nidhi ☐
 (c) MNREGA Scheme ☐ (d) Kisan Credit Card Scheme ☐
15. The United States recently held elections for its legislative body, the House of Representatives. Which party gained the majority?
 (a) Republican Party ☐ (b) Democratic Party ☐
 (c) Independent ☐ (d) Green Party ☐
16. UMFO party was formed in Mizoram
 (a) 1940 ☐ (b) 1941 ☐
 (c) 1945 ☐ (d) 1947 ☐
17. No formula rite was performed in _____
 (a) Hlamzuih ☐ (b) Awmlai ☐
 (c) Sarthi ☐ (d) Raicheh ☐
18. Mura puk was situated at _____
 (a) Zopui Village ☐ (b) Ruantlang ☐
 (c) Zote Village ☐ (d) Rulchawm Village ☐
19. A sudden and unnatural death was called _____
 (a) Hlamzuih ☐ (b) Lumen ☐
 (c) Sarthi ☐ (d) Awmlai ☐
20. Tialpari puk was situated at _____
 (a) Sur Tlang ☐ (b) Phawngpui Tlang ☐
 (c) Lengteng Tlang ☐ (d) Pukzing Village ☐
21. New Jalpaiguri, which was in the news related to Vande Bharat Express, is located in which state?
 (a) Assam ☐ (b) West Bengal ☐
 (c) Andhra Pradesh ☐ (d) Gujarat ☐
22. Which city is the host of 'Cooperative Beneficiaries Conference'?
 (a) Chennai ☐ (b) Bengaluru ☐
 (c) Cochin ☐ (d) Ahmedabad ☐
23. Which company is acquiring Ford India's manufacturing plant?
 (a) Eicher Motors ☐ (b) Tata Motors ☐
 (c) Mahindra Motors ☐ (d) Hyundai Motors ☐
24. Which state announced special schemes for Green Tech, Rural Impact and Women-led startups?
 (a) Telangana ☐ (b) Tamil Nadu ☐
 (c) Punjab ☐ (d) New Delhi ☐

25. Zuari Bridge, the second largest cable-stayed bridge in India, is located in which state/UT?
 (a) Arunachal Pradesh ☐ (b) Punjab ☐
 (c) Goa ☐ (d) Jammu & Kashmir ☐
26. Which Asian country has officially recognised e-Sports as part of multi-sports events?
 (a) Sri Lanka ☐ (b) India ☐
 (c) Bangladesh ☐ (d) China ☐
27. What is the name of the different between the total revenue and total expenditures of a country in a year?
 (a) Fiscal Deficit ☐ (b) Revenue Deficit ☐
 (c) Primary Deficit ☐ (d) Budget Deficit ☐
28. Where is the 'Insitute of Veterinary Biological Products (IVBP)' located?
 (a) Pune ☐ (b) Ahmedabad ☐
 (c) Lucknow ☐ (d) Mysuru ☐
29. Which cabinet has decided to merge its districts with existing ones and redraw boundaries in 14 places?
 (a) Punjab ☐ (b) Assam ☐
 (c) Uttar Pradesh ☐ (d) Bihar ☐
30. Which state received the largest outlay in the total expenditure of Rs. 13,000 crore on cleaning the Ganga since, 2014?
 (a) Bihar ☐ (b) Uttar Pradesh ☐
 (c) Uttarakhand ☐ (d) West Bengal ☐
31. 'Future Engineer Program' is an initiative of which multi-national company?
 (a) Meta ☐ (b) Amazon ☐
 (c) Samsung ☐ (d) IBM ☐
32. Which insitution developed the Bharat Interface for Money (BHIM) app?
 (a) RBI ☐ (b) NPCI ☐
 (c) SEBI ☐ (d) NASSCOM ☐
33. Which sports authority recently introduced 'Yo-Yo and Dexa Tests' in term selection criteria?
 (a) Hockey ☐ (b) Cricket ☐
 (c) Weight Lifting ☐ (d) Archery ☐
34. Which Union Ministry launched a five-pronged energy efficiency plan to become carbon-neutral by 2030?
 (a) Ministry of Coal ☐ (b) Ministry of Railways ☐
 (c) Ministry of Steel ☐ (d) Ministry of Tourism ☐
35. Anil Kumar Lahoti has taken over the charge of new Chairman and Chief Executive Office (CEO) of which institution?
 (a) UIDAI ☐ (b) Railway Board ☐
 (c) PMFBY ☐ (d) Tribes India ☐
36. Mohamed Irfaan Ali, who is recipient of Pravasi Bharatiya Samman Award, is the President of which country?
 (a) Israel ☐ (b) Guyana ☐
 (c) Ukraine ☐ (d) UAE ☐

37. Which country is set to launch 'Electronic Supreme Court Reports (e-SCR) project'?
- (a) Sri Lanka ☐ (b) Pakistan ☐
(c) India ☐ (d) Bangladesh ☐
38. Which instrument has captured the infrared image Herbig-Haro 46/47 stars?
- (a) Rover of Chandrayaan 3 ☐ (b) James Webb Space Telescope ☐
(c) Hubble Space Telescope ☐ (d) Chandra X Ray Observation Telescope ☐
39. Who is the chair of the Committee set up to assess the viability of the "one nation, one election" concept?
- (a) Amit Shah ☐ (b) Ranjan Gogoi ☐
(c) Ramnath Kovind ☐ (d) Pratibha Patil ☐
40. Current National Security Advisor of India?
- (a) Vivek doval ☐ (b) Shaurya Doval ☐
(c) Ajit Doval ☐ (d) Aruni Doval ☐
41. Avinash Sable, who was seen in the news, is associated with which sports?
- (a) Shooting ☐ (b) Archery ☐
(c) Steeplechase ☐ (d) Tennis ☐
42. *Tharosaurus indicus*, dinosaur fossils from the Middle Jurassic period, was recently discovered in which region?
- (a) Deccan Plateau, India ☐ (b) Thar Desert, India ☐
(c) Gobi Desert, China ☐ (d) Indus Valley, Pakistan ☐
43. Gilbert Hill, a monolith column of black basalt rock, lies in which state of India?
- (a) Gujarat ☐ (b) Maharashtra ☐
(c) Tamil Nadu ☐ (d) Kerala ☐
44. What is the name of India's first supercomputer?
- (a) SAGA ☐ (b) PARAM 8000 ☐
(c) EKA ☐ (d) PARAM YUVA ☐
45. Who is known as the Father of Indian Space program?
- (a) APJ Abdul Kalama ☐ (b) Raja Ramanna ☐
(c) Homi J Bhabha ☐ (d) Vikram Sarabhai ☐
46. Who is known as the inventor of Hydrogen bomb?
- (a) Enrico Fermi ☐ (b) George Gamow ☐
(c) Edward Teller ☐ (d) Hans Bethe ☐
47. The Mizo ancestors were moved westward to the Kabaw Valley which is called as
- (a) Khampat ☐ (b) Chindwin ☐
(c) Chin Hills ☐ (d) Kawlphai ☐
48. In which year was the Young Lushai Association formed?
- (a) 1925 ☐ (b) 1927 ☐
(c) 1930 ☐ (d) 1935 ☐
49. Which is not a correct pair?
- (a) Sailo - Chief ☐ (b) Tlai sial - a young mithun ☐
(c) Sarthi - natural death ☐ (d) Fatlum - the youngest son ☐
50. Who was the first Lusei Chief and from whom sprang the Six Lusei ruling Clans?
- (a) Zahmuaka ☐ (b) Lallula ☐
(c) Suakpuiliana ☐ (d) Vanpuilala ☐

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

Directions : Identify the parts of speech of each underlined words:

- | | | | |
|----|--|--|--|
| 1. | He exercises regularly <u>yet</u> he is sick. | | |
| | (a) Adverb ☐ | (b) Conjunction ☐ | |
| | (c) Preposition ☐ | (d) Pronoun ☐ | |
| 2. | <u>Expensive</u> clothes are worn by celebrities. | | |
| | (a) Adjective ☐ | (b) Noun ☐ | |
| | (c) Verb ☐ | (d) Adverb ☐ | |
| 3. | The <u>innocence</u> of these children is often tainted. | | |
| | (a) Noun ☐ | (b) Adjective ☐ | |
| | (c) Adverb ☐ | (d) Verb ☐ | |
| 4. | Liana <u>can</u> sing very well. | | |
| | (a) Adverb ☐ | (b) Conjunction ☐ | |
| | (c) Verb ☐ | (d) Preposition ☐ | |
| 5. | I have sent <u>for</u> the maid. | | |
| | (a) Preposition ☐ | (b) Adjective ☐ | |
| | (c) Verb ☐ | (d) Interrogative ☐ | |

Directions : Fill in the blanks with the correct form of verbs:

- | | | | |
|-----|--|--|--|
| 6. | When I saw the child, he _____ | | |
| | (a) cried ☐ | (b) had cried ☐ | |
| | (c) was crying ☐ | (d) is crying ☐ | |
| 7. | I _____ since morning for you. | | |
| | (a) waited ☐ | (b) have been waiting ☐ | |
| | (c) had wait ☐ | (d) wait ☐ | |
| 8. | I _____ to my native place a week ago. | | |
| | (a) have went ☐ | (b) am going ☐ | |
| | (c) will go ☐ | (d) went ☐ | |
| 9. | It was hard work carrying the bags. They _____ very heavy. | | |
| | (a) are ☐ | (b) will be ☐ | |
| | (c) was ☐ | (d) were ☐ | |
| 10. | How many eggs has your _____ today? | | |
| | (a) lay ☐ | (b) laying ☐ | |
| | (c) been laying ☐ | (d) laid ☐ | |

Directions : Choose the appropriate preposition from the alternatives given under each sentences:

- | | | | |
|-----|--|-----------------------------------|--|
| 11. | Thanga will work here _____ the evening. | | |
| | (a) till ☐ | (b) at ☐ | |
| | (c) for ☐ | (d) in ☐ | |
| 12. | He kicked the ball _____ the well | | |
| | (a) with ☐ | (b) into ☐ | |
| | (c) in ☐ | (d) at ☐ | |

13. The beggar walked _____ foot.
 (a) on ☐ (b) with ☐
 (c) to ☐ (d) by ☐
14. Lincoln was very fond _____ dancing.
 (a) at ☐ (b) with ☐
 (c) in ☐ (d) of ☐
15. I will remain true _____ my promises till I die.
 (a) to ☐ (b) of ☐
 (c) and ☐ (d) with ☐

Directions : Choose the correct meaning of the following idioms and phrases:

16. Fifth wheel
 (a) Informative ☐ (b) A Compliment ☐
 (c) Ancient ☐ (d) Superfluous ☐
17. In a nut shell
 (a) small ☐ (b) In a bad physical condition ☐
 (c) Humble ☐ (d) Summary ☐
18. To shift gears
 (a) To drive fast ☐ (b) To be unconcerned ☐
 (c) To go to jail ☐ (d) To suddenly change what are you doing ☐
19. Bitter pill to swallow
 (a) To lose consciousness ☐ (b) Something difficult to understand ☐
 (c) Something unpleasant to endure ☐ (d) To be sickly all the time ☐
20. Stool pigeon
 (a) A piece of furniture ☐ (b) A big bird ☐
 (c) An informer for the police ☐ (d) A convict ☐

Directions : Choose the correct Synonyms for the following words:

21. Behest
 (a) Influence ☐ (b) Promise ☐
 (c) Request ☐ (d) Doubt ☐
22. Unorthodox
 (a) Religious ☐ (b) Strange ☐
 (c) Familiar ☐ (d) Void ☐
23. Antithesis
 (a) Authentic ☐ (b) Exact Opposite ☐
 (c) Questionable ☐ (d) Original Idea ☐
24. Paradigm
 (a) Remedy ☐ (b) Charitable ☐
 (c) Standard Example ☐ (d) Clear ☐
25. Irrelevant
 (a) Boring ☐ (b) Common Place ☐
 (c) Useless ☐ (d) Inferior ☐

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

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

The Incredible Machine

Everyone has a favorite attraction at an amusement park, and I am no different. However, unlike most people who seem to prefer roller coasters, my favorite ride is a little more gentle. Every time I go to Coney Island, Navy Pier, or the Santa Monica Pier, I absolutely have to ride the Ferris wheel. The Ferris wheel is simple and yet also quite complex. That is, riding it is easy, but how it works is complicated. A series of carts are attached to a wheel, which is attached to a rim. That rim rotates vertically around an axis, and gravity keeps the carts upright. As simple as the ride seems, only advanced engineers can make safe and fun Ferris wheels.

What It Lacks in Thrills...

While the Ferris wheel is not as thrilling as a roller coaster, it is still very exciting. The fact of being high in the air makes it so much more entertaining than a lot of rides. I mean, how often do you hang from that high up in daily life? Nevertheless, I have to admit, I don't seek Ferris wheels out because of their excitement. Rather, I find them very relaxing. At the top of the Ferris wheel, you get beautiful sights of the park. You also get a sense of calm that you don't get in the hustle and bustle of the park below. Additionally, Ferris wheels are also gorgeous to look at when they are lit up at night. In fact, the original Ferris wheel was designed as much to be seen as to be ridden.

It Happened at the World's Fair

The first Ferris wheel was made by and named after George Washington Gale Ferris, Jr. He designed it for the Chicago World's Fair in 1893. It was the tallest attraction there, standing 264 feet high. However, visitors to the fair were impressed by the size of the ride as well as the mechanics of it. In 1893, anything that was not turned by hand was considered a sight to see. And the wheel, which was a machine, was truly incredible to see. Further, as one visitor put it, the wheel was amazing because it seemed to be missing support. That is, it did not look like it could stand on its own. And yet it did and even rotated!

They Keep Reaching Higher and Higher

Ferris wheel technology has only improved since then. Most of today's Ferris wheels are much larger than that first one. The largest in the world is the "Singapore Flyer," which stands slightly taller than twice what Ferris's did! Today, the Ferris wheel is the most common amusement park ride. But that does not mean you should take them for granted. Instead, be thankful for Ferris' invention. The next time you're at an amusement park, don't just look up at the impressive wheel in the sky on your way to a newer attraction. Take it for a spin!

- (1) As used in paragraph 1, the word attraction most nearly means
- A) sense ☐
- B) park ☐
- C) ride ☐
- D) vision ☐
- (2) It can be understood that Coney Island, Navy Pier, and the Santa Monica Pier are all examples of
- A) amusement parks ☐
- B) Ferris wheels ☐
- C) vacation spots ☐
- D) boat docks ☐
- (3) As used in paragraph 2, which is the best antonym for complex?
- A) impressive ☐
- B) beautiful ☐
- C) exciting ☐
- D) simple ☐

- (4) What does the author like best about Ferris wheels?
- A) the impressive engineering and beauty of them ☐
- B) the excitement and thrills they guarantee ☐
- C) the beautiful sights and relaxation they allow ☐
- D) the fact that most amusement parks have one ☐
- (5) According to the passage, the Ferris wheel was originally designed for
- A) Coney Island ☐
- B) the world's fair ☐
- C) Disneyworld ☐
- D) Singapore ☐
- (6) Using information in the passage, the reader can understand that the tallest Ferris wheel in the world is
- A) under 250 feet tall ☐
- B) between 250 and 500 feet tall ☐
- C) between 500 and 750 feet tall ☐
- D) over 750 feet tall ☐

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

Fruit Fly Fix

It is breakfast time. You have been looking forward to eating a nice ripe banana ever since you woke up. Just when you reach for the delicious piece of fruit on your counter, you see something that makes you much less hungry: a swarm of fruit flies! Fruit flies are tiny insects that are attracted to ripe or rotting fruits and vegetables. The flies not only eat the fruit, they also lay their eggs there. A single fruit fly can lay up to 500 eggs on the surface of a piece of fruit. Within eight days, the fruit flies that hatch from these eggs are full adults that can then lay their own eggs. As you can see, what might start out as a small fruit fly problem can become very large very quickly.

Although there is a chance fruit flies can carry germs on to your food, this is not very likely. Fruit flies are annoying, but they probably will not hurt you. Because they are such a nuisance, however, most people want to get rid of these pesky bugs as quickly as possible. Some people use pesticide sprays on the fruit flies. Although this will kill the flies, it will also spread harmful poison all over your kitchen. Luckily, there is also a completely safe way for you to get rid of fruit flies in your house. The first step is for you to remove all fruits or vegetables from your counter. Store these items in the refrigerator or in sealed containers. Clean up any spilled juice or bits of food that might be on the floor. Take out the trash and empty the recycling bin. Wash any dirty dishes that are in your sink. Doing all of these things will stop new fruit flies from finding food or places to lay their eggs.

Next, make a trap to catch all of the remaining fruit flies in your house. First, fill a small bowl with a few tablespoons of vinegar. Then, put a piece of very ripe or rotting fruit into the vinegar. Cover the bowl very tightly with a sheet of plastic wrap and poke a few very small holes in the wrap with a fork. If all goes according to plan, the flies will enter the trap through the holes but will be unable to fly back out. This trap will catch all of the remaining fruit flies. You can either kill these flies or release them outdoors. Fruit flies can be a pest, but they do not have to make you crazy. With a little effort, you can get existing flies out of your house and prevent new ones from taking over your kitchen.

- (1) In reading this passage, we learn that fruit flies
- I. die immediately after they lay their eggs
- II. can grow into adults after only 8 days
- III. are mostly harmless
- A. I only ☐
- B. I and II only ☐
- C. II and III only ☐
- D. I, II and III ☐

- (2) As used in paragraph 3, a nuisance is something that
- A. bothers you ☐
 - B. can be dangerous ☐
 - C. grows fast ☐
 - D. is very small ☐
- (3) According to the passage, why should you not use pesticide spray to kill fruit flies?
- A. most sprays do not actually kill all of the fruit flies ☐
 - B. buying sprays can get expensive if you need to use a lot of them ☐
 - C. the sprays take too much time to work ☐
 - D. it can be dangerous to use them in your kitchen ☐
- (4) Based on the information in the penultimate (next-to-last) paragraph, we can understand that the author thinks that
- A. some people do not mind having fruit flies in their house ☐
 - B. some people do not like killing insects ☐
 - C. fruit flies do not like vinegar ☐
 - D. making a fruit fly trap can be difficult ☐

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PART-D
ESSAY WRITTING
(30 Marks)

Write an Essay on anyone of the following : (30)

- (a) Importance of Water Conservation in our daily life.
- (b) Impact of Social Media on Mizo Society
- (c) Role of NGO in our Mizo Society

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