



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

WRITTEN EXAMINATION : 2025
FOR THE POST OF

ELECTRIC LINEMAN
(P.E)

PAPER-II

Code No: _____
(For Official Use)

Signature of Invigilator

SUBJECT (Part)	MARKS OBTAINED
Part-A Simple Arithmetic (50x2=100 marks)	
Part-B Basic Computer Knowledge (50x2=100 marks)	
Total Marks obtained (Full Marks-200)	

Signature of Examiner



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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, directly on the question/answer sheet using tick Tick (✓) Marks.
2. Time : 3 Hours

PART-A
SIMPLE ARITHMETIC (50X2=100 Marks)

- | | | | |
|-----|---|--------------------------|---|
| 1. | What is the smallest natural number? | | |
| | (a) 1 | ☐ | (b) 2 ☐ |
| | (c) 3 | ☐ | (d) 5 ☐ |
| 2. | Find the value of $(13)^3$ | | |
| | (a) 1287 | ☐ | (b) 1307 ☐ |
| | (c) 2217 | ☐ | (d) 2197 ☐ |
| 3. | Which of the following is a prime number? | | |
| | (a) 571 | ☐ | (b) 517 ☐ |
| | (c) 533 | ☐ | (d) 559 ☐ |
| 4. | Every rational number is - | | |
| | (a) Whole number | ☐ | (b) Natural number ☐ |
| | (c) Real number | ☐ | (d) None of these ☐ |
| 5. | Simplify: $0.2 + 0.2 - 0.2 \div 0.2 \times (0.2 \times 0.2)$ | | |
| | (a) 0.35 | ☐ | (b) 0.36 ☐ |
| | (c) 0.34 | ☐ | (d) 0.37 ☐ |
| 6. | 50 times of 8 is equal to | | |
| | (a) 80 | ☐ | (b) 400 ☐ |
| | (c) 800 | ☐ | (d) 4000 ☐ |
| 7. | A Bus is running at 3 km/hr. How much time it will take to cover 9 km? | | |
| | (a) 3 hr | ☐ | (b) 4 hr ☐ |
| | (c) 2 hr | ☐ | (d) 5 hr ☐ |
| 8. | 2 % of 300 km is | | |
| | (a) 5 km | ☐ | (b) 6 km ☐ |
| | (c) 4 km | ☐ | (d) 3 km ☐ |
| 9. | $20 + (90 \div 2)$ is equal to ? | | |
| | (a) 55 | ☐ | (b) 50 ☐ |
| | (c) 65 | ☐ | (d) 60 ☐ |
| 10. | Solve $24 \div 8 + 2$ | | |
| | (a) 8 | ☐ | (b) 5 ☐ |
| | (c) 4 | ☐ | (d) 6 ☐ |
| 11. | What will be the percentage of increase in salary from Rs 4000 to Rs 4600 ? | | |
| | (a) 15% | ☐ | (b) 20% ☐ |
| | (c) 25% | ☐ | (d) 10% ☐ |
| 12. | Fill in the blank : 200 % of _____ = 50 | | |
| | (a) 15 | ☐ | (b) 30 ☐ |
| | (c) 20 | ☐ | (d) 25 ☐ |

13. 20% of a number is 12. Find 35% of the same number.
 (a) 19 ☐ (b) 21 ☐
 (c) 18 ☐ (d) 17 ☐
14. Distribute 93 pencils in the ratio of 2:1 between A and B.
 (a) A=62, B= 31 ☐ (b) A=31, B= 62 ☐
 (c) A=80, B= 13 ☐ (d) A=70, B= 23 ☐
15. The ratio between two numbers is 2 :11. If the difference between the numbers is 81 find the smaller number.
 (a)10 ☐ (b) 14 ☐
 (c) 16 ☐ (d) 18 ☐
16. Divide Rs 3645 among A, B, C in the ratio 2 : 3: 4. Find A's share
 (a) Rs. 960 ☐ (b) Rs 810 ☐
 (c) Rs 1215 ☐ (d) Rs 720 ☐
17. If $2 : 3 :: y : 63$, find the value of y.
 (a) 31 ☐ (b) 36 ☐
 (c) 42 ☐ (d) 53 ☐
18. Calculate the simple interest if the rate is given per annum, P = Rs 8500, R = 7%, T=5 years
 (a) Rs 2710 ☐ (b) Rs 2975 ☐
 (c) Rs 1923 ☐ (d) Rs 3200 ☐
19. In what time, will Rs 500 give Rs 50 as interest at the rate of 5% per annum simple interest?
 (a) 3 years ☐ (b) 5 years ☐
 (c) 2 years ☐ (d) 4 years ☐
20. At what rate of simple interest a sum of money will double in 4 years?
 (a) 25% ☐ (b) 15% ☐
 (c) 30% ☐ (d) 35% ☐
21. Calculate the interest on Rs 500 for 5 years at the rate of 6 % per annum.
 (a) Rs 90 ☐ (b) Rs. 200 ☐
 (c) Rs 150 ☐ (d) Rs 120 ☐
22. Find the amount on Rs 10000 for 2 years at 8 % per annum, compounded annually.
 (a) Rs 11024 ☐ (b) Rs 11664 ☐
 (c) Rs 12000 ☐ (d) Rs 12800 ☐
23. At what rate of interest per annum will Rs 10000 amount to Rs 11025 in 2 years, when compounded annually ?
 (a) 10% pa ☐ (b) 15% pa ☐
 (c) 5% pa ☐ (d) 7% pa ☐
24. Sailova loses 20% on cost. What is his loss on sales?
 (a) 25% ☐ (b) 20% ☐
 (c) 15% ☐ (d) 23% ☐
25. The cost price of an article is Rs 250. If it is sold for Rs 280 what is the profit percent?
 (a) 8% ☐ (b) 15% ☐
 (c) 10% ☐ (d) 12% ☐

26. A person sells the car to another person at a loss of 10%. If the second person sells the car for Rs 54000 and receives a 20% gain. What's the actual price of the car ?
- (a) Rs 45000 ☐ (b) Rs 50000 ☐
(c) Rs 25000 ☐ (d) Rs 60000 ☐
27. Find the value of 15 % of Rs 300
- (a) Rs 45 ☐ (b) Rs 35 ☐
(c) Rs 40 ☐ (d) Rs 25 ☐
28. Add : 155 and -157
- (a) 3 ☐ (b) -2 ☐
(c) 2 ☐ (d) 5 ☐
29. Subtract 5.467 from 17.2
- (a) 11.621 ☐ (b) 10.733 ☐
(c) 11.733 ☐ (d) 12.623 ☐
30. If Selling price is Rs 270 while cost price is Rs 300, the loss percentage is -
- (a) 10 % ☐ (b) 15% ☐
(c) 8% ☐ (d) 12% ☐
31. _____ is the square of 23
- (a) 419 ☐ (b) 529 ☐
(c) 339 ☐ (d) 645 ☐
32. Find the square root of 1225
- (a) 13 ☐ (b) 25 ☐
(c) 35 ☐ (d) 15 ☐
33. A shirt marked at Rs 80 was sold at a discount of 15 %. Find the selling price.
- (a) 68 ☐ (b) 72 ☐
(c) 58 ☐ (d) 65 ☐
34. A speed of 30.6 km/hr is the same as
- (a) 13.5 m/sec ☐ (b) 12 m/sec ☐
(c) 10 m/sec ☐ (d) 8.5 m/sec ☐
35. A can do a piece of work in 30 days, while B can do it in 60 days. Working together, in how many days, they will complete the work ?
- (a) 15 days ☐ (b) 20 days ☐
(c) 10 days ☐ (d) 25 days ☐
36. The price of a machine is Rs 10000. Para buys it at 10% discount. How much did he pay?
- (a) Rs 8000 ☐ (b) Rs 9000 ☐
(c) Rs 7500 ☐ (d) None of these ☐
37. 20% of R = 100, R is
- (a) 200 ☐ (b) 100 ☐
(c) 500 ☐ (d) 700 ☐
38. The sum of two number is 25 and their difference is 11. What is the smaller number
- (a) 7 ☐ (b) 13 ☐
(c) 9 ☐ (d) 10 ☐

39. Solve : $76.92 + 9.9$
- | | | | |
|-----------|--------------------------|-----------|--------------------------|
| (a) 76.72 | ☐ | (b) 86.82 | ☐ |
| (c) 92.82 | ☐ | (d) 82.47 | ☐ |
40. X and Y can do a piece of work in 8 days, which X alone can do in 12 days. In how many days can Y alone do the same work?
- | | | | |
|-------------|--------------------------|-------------|--------------------------|
| (a) 20 days | ☐ | (b) 15 days | ☐ |
| (c) 24 days | ☐ | (d) 25 days | ☐ |
41. When 2 is added to a number, the result is 15. Find the number
- | | | | |
|--------|--------------------------|--------|--------------------------|
| (a) 10 | ☐ | (b) 12 | ☐ |
| (c) 13 | ☐ | (d) 11 | ☐ |
42. Additive Inverse of 5 is
- | | | | |
|-----------|--------------------------|--------|--------------------------|
| (a) $1/5$ | ☐ | (b) -5 | ☐ |
| (c) 25 | ☐ | (d) 10 | ☐ |
43. A person crosses a 600 metre long street in 5 minutes. What is his speed in km per hour?
- | | | | |
|---------|--------------------------|---------|--------------------------|
| (a) 3.6 | ☐ | (b) 6.5 | ☐ |
| (c) 7.2 | ☐ | (d) 9 | ☐ |
44. The average of the first five multiples of 7 is
- | | | | |
|--------|--------------------------|--------|--------------------------|
| (a) 25 | ☐ | (b) 21 | ☐ |
| (c) 23 | ☐ | (d) 20 | ☐ |
45. The average age of the three girls is 15 years. If their ages are in ratio of 3 : 5 : 7, the age of the youngest girl is
- | | | | |
|--------------|--------------------------|--------------|--------------------------|
| (a) 18 years | ☐ | (b) 21 years | ☐ |
| (c) 12 years | ☐ | (d) 9 years | ☐ |
46. Find the value of 50% of 10% of 1000
- | | | | |
|--------|--------------------------|--------|--------------------------|
| (a) 30 | ☐ | (b) 45 | ☐ |
| (c) 50 | ☐ | (d) 60 | ☐ |
47. The length of a rectangular garden is 23 ft and its width is 15ft. Find the area of the garden.
- | | | | |
|--------------|--------------------------|--------------|--------------------------|
| (a) 325 sqft | ☐ | (b) 345 sqft | ☐ |
| (c) 245 sqft | ☐ | (d) 315 sqft | ☐ |
48. Which of the following is a perfect square as well as a cube-
- | | | | |
|--------|--------------------------|---------|--------------------------|
| (a) 64 | ☐ | (b) 125 | ☐ |
| (c) 81 | ☐ | (d) 343 | ☐ |
49. What is the perimeter of Rectangle of Length 10 km and Breadth 5 km?
- | | | | |
|-----------|--------------------------|-----------|--------------------------|
| (a) 25 km | ☐ | (b) 30 km | ☐ |
| (c) 35 km | ☐ | (d) 20 km | ☐ |
50. If a man covers 10.2 km in 3 hrs, find the distance covered by him in 5 hours.
- | | | | |
|-----------|--------------------------|-----------|--------------------------|
| (a) 12 km | ☐ | (b) 15 km | ☐ |
| (c) 14 km | ☐ | (d) 17 km | ☐ |
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PART-B
BASIC COMPUTER KNOWLEDGE
(50X2=100 Marks)

1. Which storage device cannot be erased?
(a) A floppy disk ☐ (b) Magnetic tape storage ☐
(c) A CD-ROM ☐ (d) All of the above ☐
2. A laser printer does NOT use?
(a) A photo-conductive drum ☐ (b) A print head ☐
(c) A laser beam ☐ (d) None of these ☐
3. What would you not use with a flatbed plotter?
(a) A pen ☐ (b) Eraser ☐
(c) Paper ☐ (d) None of these ☐
4. Hard copy is a term used to describe?
(a) Printed output ☐ (b) Writing on a hard board ☐
(c) Storing information on the hard disk ☐ (d) All of the above ☐
5. A daisy wheel is a type of?
(a) Storage device ☐ (b) Pointing device ☐
(c) Scanning Device ☐ (d) Printer ☐
6. What are the individual dots which make up a picture on the monitor screen called?
(a) Colored spots ☐ (b) Pixies ☐
(c) Pixels ☐ (d) None of these ☐
7. What does a light pen contain?
(a) Refillable ink ☐ (b) Light sensitive elements ☐
(c) Pencil lead ☐ (d) Blue Ink ☐
8. A digitizing tablet can be used for?
(a) Tracing diagrams ☐ (b) Printing letters ☐
(c) Reading bar-codes ☐ (d) Playing ☐
9. How did the computer mouse get its name?
(a) Its cable looks like a tail ☐ (b) Because it squeaks when moved ☐
(c) It has ears ☐ (d) Teeth outside mouth ☐
10. Where would you find the letters QWERTY?
(a) Mouse ☐ (b) Screen ☐
(c) Numeric Keypad ☐ (d) Keyboard ☐
11. A byte represents a group of?
(a) 10 bits ☐ (b) 40 bits ☐
(c) 8 bits ☐ (d) 22 bits ☐
12. Resolution of laser printer is specified in terms of?
(a) DPI ☐ (b) LPM ☐
(c) CPM ☐ (d) PPM ☐
13. The vast network of computers that connects millions of people all over the world is called?
(a) LAN ☐ (b) Web ☐
(c) Hypertext ☐ (d) Internet ☐

14. The ALU of a computer responds to the commands coming from?
 (a) Primary memory ☐ (b) Control section ☐
 (c) External memory ☐ (d) Cache memory ☐
15. A storage area used to store data to a compensate for the difference in speed at which the different units can handle data is ?
 (a) Memory ☐ (b) Buffer ☐
 (c) Accumulator ☐ (d) Address ☐
16. The scrambling of code is known as?
 (a) Encryption ☐ (b) A firewall ☐
 (c) Scrambling ☐ (d) Password-proofing ☐
17. What is the most common tool used to restrict access to a computer system?
 (a) User log in ☐ (b) Passwords ☐
 (c) Computer keys ☐ (d) Access-control software ☐
18. The thing that eventually terminates a worm virus is a lack of?
 (a) Memory or disk space ☐ (b) Time ☐
 (c) CD drive space ☐ (d) CD-RW ☐
19. The majority of computer crimes are committed by:
 (a) Hackers ☐ (b) Insiders ☐
 (c) Overseas criminals ☐ (d) Young teenage computer geniuses ☐
20. Malicious software is known as:
 (a) Badware ☐ (b) Malware ☐
 (c) Maliciousware ☐ (d) Illegalware ☐
21. In 1999, the Melissa virus was a widely publicized:
 (a) e-mail Virus ☐ (b) Macro virus ☐
 (c) Trojan Horse ☐ (d) Time Bomb ☐
22. A program that performs a useful task while simultaneously allowing destructive acts is:
 (a) Worm ☐ (b) Trojan Horse ☐
 (c) Virus ☐ (d) Macro Virus ☐
23. USB is atype of-
 (a) Processor ☐ (b) Port ☐
 (c) Monitor ☐ (d) Program ☐
24. IDE (ATE) or SATA interface connect Mother board with-
 (a) Mother board ☐ (b) RAM ☐
 (c) Processor ☐ (d) Hard disk ☐
25. Intel and AMD are leaders in-
 (a) Processor ☐ (b) RAM ☐
 (c) Mother board ☐ (d) Hard disk ☐
26. Hyper-threading (HT) is related to-
 (a) Processor ☐ (b) RAM ☐
 (c) Mother board ☐ (d) Hard disk ☐
27. Ensuring that the essential peripheral devices are attached and operational is the ____Process.
 (a) Configuration ☐ (b) CMOS ☐
 (c) POST ☐ (d) ROM ☐

28. The basic input/output system (BIOS) is stored in-
 (a) RAM ☐ (b) ROM ☐
 (c) The CPU ☐ (d) The Hard Drive ☐
29. All of the following are steps involved in the boot process except-
 (a) Load the operating system into RAM ☐ (b) The power on self test ☐
 (c) Activate the basic input/output system (BIOS) ☐ (d) Load application programs ☐
30. The operating system does all of the following except-
 (a) Provide a way for the user to interact with the computer ☐
 (b) Manage the Central Processing Unit (CPU) ☐
 (c) Manage memory and storage ☐
 (d) Enable users to perform a specific task as documents editing ☐
31. A collection of 8 bits is called-
 (a) Byte ☐ (b) Record ☐
 (c) Word ☐ (d) Nibble ☐
32. A collection of interrelated files in a computer is a-
 (a) File manager ☐ (b) Field ☐
 (c) Record ☐ (d) Database ☐
33. A website's main page is called its-
 (a) Home page ☐ (b) Browser page ☐
 (c) Bookmark page ☐ (d) Search page ☐
34. ALU is termed as-
 (a) Arithmetic Logical Unit ☐ (b) Array Logical Unit ☐
 (c) Application Logic Unit ☐ (d) Application Logic Universal ☐
35. What is usually used for displaying information at public places?
 (a) Monitors ☐ (b) Overhead ☐
 (c) Monitor and overhead projection ☐ (d) Touch screen kiosks ☐
36. Measuring unit of capacity of hard drive is-
 (a) GHz ☐ (b) GB ☐
 (c) Gwatts ☐ (d) G Newton ☐
37. Protocols are
 (a) Sets of rules ☐ (b) Sets of maps ☐
 (c) Sets of computers ☐ (d) Sets of products ☐
38. The operating system is the most common type of ____ software.
 (a) Communication ☐ (b) System ☐
 (c) Word processing ☐ (d) None of these ☐
39. A _____ represents approximately one billion memory locations.
 (a) Kilobyte ☐ (b) Megabyte ☐
 (c) Gigabyte ☐ (d) Terabyte ☐
40. What is the first indigenously developed super computer of India?
 (a) Tejas ☐ (b) Anupam ☐
 (c) Aryabhata ☐ (d) Param ☐
41. The length of a word in a computer is measured in:
 (a) Bits ☐ (b) Byte ☐
 (c) Millimeters ☐ (d) Metre ☐

42. Gmail, a free web-based email service operated by which company?
- | | | | |
|---------------|--------------------------|------------|--------------------------|
| (a) Apple | ☐ | (b) Google | ☐ |
| (c) Microsoft | ☐ | (d) Yahoo | ☐ |
43. A URL is:
- | | | | |
|---|--------------------------|--------------------------|--------------------------|
| (a) A computer program | ☐ | (b) A type of web server | ☐ |
| (c) The address of a document or page on the world wide web | | | ☐ |
| (d) An acronym for unlimited resources for learning | | | ☐ |
44. ROM tells the computer to-
- | | | | |
|-----------------------------|--------------------------|-----------------------------------|--------------------------|
| (a) Disconnect the computer | ☐ | (b) Start up the operating system | ☐ |
| (c) Connect to the hardware | ☐ | (d) Pass on data to the RAM | ☐ |
45. What is the full form of e-mail?
- | | | | |
|---------------------|--------------------------|--------------------------|--------------------------|
| (a) Electric mail | ☐ | (b) Electromagnetic mail | ☐ |
| (c) Electronic mail | ☐ | (d) None of these | ☐ |
46. Word BLOG is combination of two words-
- | | | | |
|--------------|--------------------------|--------------|--------------------------|
| (a) Web-log | ☐ | (b) Wave-log | ☐ |
| (c) Web-blog | ☐ | (d) Web-lock | ☐ |
47. The term 'Pentium' is related to what?
- | | | | |
|--------------------|--------------------------|---------------|--------------------------|
| (a) Mouse | ☐ | (b) Hard Disk | ☐ |
| (c) Microprocessor | ☐ | (d) DVD | ☐ |
48. What was the first general purpose electronic computer?
- | | | | |
|-------------|--------------------------|-------------|--------------------------|
| (a) IBM 405 | ☐ | (b) Zuse Z3 | ☐ |
| (c) ENIAC | ☐ | (d) CSIRAC | ☐ |
49. Which of these is the first web-based e-mail service?
- | | | | |
|-------------|--------------------------|-----------------|--------------------------|
| (a) Gmail | ☐ | (b) Yahoo Mail | ☐ |
| (c) Hotmail | ☐ | (d) Rediff Mail | ☐ |
50. Which of the following is not a storage device?
- | | | | |
|-----------------|--------------------------|---------------|--------------------------|
| (a) DVD | ☐ | (b) Hard Disk | ☐ |
| (c) Floppy Disk | ☐ | (d) Mouse | ☐ |

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