



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

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

**LDC
(P.E & REGULAR)**

PAPER-II

Code No: _____
(For Official Use)

Signature of Invigilator

SUBJECT (Part)	MARKS OBTAINED
Computer Knowledge (50x2=100 marks)	
Simple Arithmetic & General Intelligence & Reasoning (50x2=100 marks)	
Total Marks obtained (Full Marks-200)	

Signature of Examiner



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Roll No: _____
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Signature of Candidate

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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
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PART A
COMPUTER KNOWLEDGE
(50X2=100 Marks)

1. The main function of Fourth Generation computers is the used of?
(a) Vacuum tubes ☐ (b) Transistors ☐
(c) Microprocessors ☐ (d) Artificial Intelligence ☐
2. Temporary data is stored in :
(a) Hard disk ☐ (b) CD-ROM ☐
(c) RAM ☐ (d) Printer ☐
3. Registers are used for :
(a) Permanent data storage ☐ (b) Inputting data storage ☐
(c) Storing temporary data during processing ☐ (d) Displaying results ☐
4. A processor with a higher clock speed will generally :
(a) Run slower ☐ (b) Store more data ☐
(c) Process data faster ☐ (d) Produce better display ☐
5. Magnetic tapes are primarily used for :
(a) Video editing ☐ (b) Long-term data storage and backups ☐
(c) Booting the operating system ☐ (d) Web browsing ☐
6. Which of the following is not a type of printer ?
(a) Laser printer ☐ (b) Inkjet printer ☐
(c) Thermal printer ☐ (d) Joystick printer ☐
7. Which of the following is NOT a type of software ?
(a) Application software ☐ (b) System software ☐
(c) Utility software ☐ (d) Mechanical software ☐
8. System software is primarily responsible for :
(a) Playing games ☐ (b) Helping users type letters ☐
(c) Managing computer hardware ☐ (d) Drawing picture ☐
9. A server is a computer that :
(a) Always needs a monitor ☐
(b) Only runs games ☐
(c) Provides services and data to other computer ☐
(d) Cannot connect to the internet ☐
10. The primary objective of the IT Act, 2000 is to :
(a) Promote video games ☐
(b) Legalize digital signatures and electronic records ☐
(c) Control mobile phone prices ☐
(d) Increase computer speed ☐
11. The part of the OS that manages hardware devices is :
(a) File Manager ☐ (b) Memory Loader ☐
(c) Device Manager ☐ (d) Folder Handler ☐

12. The Windows operating system allows users to :
- (a) Run only one program at a time ☐ (b) Manage files and folders visually ☐
(c) Access BIOS directly ☐ (d) Only use Microsoft Office ☐
13. Which type of icon represents an application or program ?
- (a) Shortcut Icon ☐ (b) System Icon ☐
(c) File Icon ☐ (d) Folder Icon ☐
14. The structure of files and folders in a computer is called:
- (a) Folder Tree ☐ (b) File Explorer ☐
(c) File System ☐ (d) Operating System ☐
15. What is the purpose of the folder tree in a File Explorer ?
- (a) To display the contents of a specific folder ☐
(b) To show all the folders and sub folders in a hierarchical structure ☐
(c) To rename files and folders ☐
(d) To organize files alphabetically ☐
16. The “run” option in the Start Menu allows you to :
- (a) Launch applications by typing their names ☐
(b) Run system diagnostics ☐
(c) On the Desktop ☐
(d) View running processes ☐
17. Where is a shortcut typically placed after being created ?
- (a) In the same folder as the original file ☐ (b) In the Recycle bin ☐
(c) On the Desktop ☐ (d) In the Control Panel ☐
18. Which of the following Windows Accessories is used for basic text editing with no formatting ?
- (a) WordPad ☐ (b) Notepad ☐
(c) Paint ☐ (d) Calculator ☐
19. What feature allows you to preview your document before printing ?
- (a) Page Layout ☐ (b) Print Preview ☐
(c) Header and Footer ☐ (d) Document Inspector ☐
20. What feature allows you to preview your document before printing ?
- (a) Left-aligned ☐ (b) Right-aligned ☐
(c) Center-aligned ☐ (d) Top-aligned ☐
21. When adding a footer, what type of content can you insert?
- (a) Page numbers ☐ (b) Date and time ☐
(c) Text or logo ☐ (d) All of the above ☐
22. What is the purpose of changing the font type in a document?
- (a) To adjust the document's page size ☐
(b) To change the style of the text for emphasis or design ☐
(c) To add page numbers ☐
(d) To apply color to the text ☐
23. What happens when you type a word incorrectly that is listed in the AutoCorrect dictionary?
- (a) It is automatically corrected as you type ☐
(b) It is highlighted in red ☐
(c) The word is ignored ☐
(d) It opens a suggestion box ☐

24. What is the purposed of using the thesaurus feature in word processors ?
 (a) To count the number of word to enhance writing ☐
 (b) To suggest synonyms for words to enhance writing ☐
 (c) To check grammer errors ☐
 (d) To correct spelling mistakes ☐
25. If you want to replace only a specific instance of text, which option should you use ?
 (a) Replace All ☐ (b) Replace ☐
 (c) Find Next ☐ (d) Find All ☐
26. Which tool allows you to quickly copy the formatting of text from one part of the document to another?
 (a) Format Painter ☐ (b) WordArt ☐
 (c) Bullets and Numbering ☐ (d) Page Layout ☐
27. What is the function of bullets and numbering in a document ?
 (a) To create a list of items with consistent formatting ☐
 (b) To add images to the document ☐
 (c) To change the font size of the text ☐
 (d) To hight important word in a paragraph ☐
28. What is a common use of WordArt in documents?
 (a) To add decorative text effects like shadows or outline ☐
 (b) To insert charts and graphs ☐
 (c) To display images from the web ☐
 (d) To add sound effects ☐
29. How do you resize columns or rows in a table?
 (a) Drag the borders of the columns or rows to adjust the size ☐
 (b) Use the "Insert" tab to resize the table ☐
 (c) Right -click and select "Resize Column" ☐
 (d) Use the "Review" tab to change the size ☐
30. What type of the extension do's a typical Excel worksheet have ?
 (a) .docx ☐ (b) .xlsx ☐
 (c) .pptx ☐ (d) .txt ☐
31. In Mail Merge, what is a master document?
 (a) The template document that contains the static text ☐
 (b) A document containing the list of recipients ☐
 (c) The document that stores all merged information ☐
 (d) A document where Mail Merge setting are stored ☐
32. Which of the following is an example of a basic Excel formula ?
 (a) =SUM(A1 : A10) ☐ (b) =Text ("Hello") ☐
 (c) =FIND("apple',A1) ☐ (d) All of the above ☐
33. Which of the following is an example of a basic Excel formula ?
 (a) The cell references adjust based one cell to another ☐
 (b) The formula remains fixed with the same location ☐
 (c) The formula causes an error ☐
 (d) The formula is automatically converted to absolute references ☐

34. Which of the following can be formatted in Excel ?
 (a) Front size ☐ (b) Text alignment ☐
 (c) Borders and shading ☐ (d) All of the above ☐
35. How can you adjust the column width in Excel to fit the longest entry?
 (a) Double-click the boundry between column headers ☐
 (b) Manually drag the column boundry ☐
 (c) Use the “Auto fit” option ☐
 (d) All of the above ☐
36. What does the COUNTA() function do in Excel
 (a) Counts only blank cell ☐ (b) Counts only numeric values ☐
 (c) Counts all non-empty cells ☐ (d) Counts errors ☐
37. What is the purpose of a two-variable data table?
 (a) To create charts from two tables ☐
 (b) To show results of changing two variables on one formula ☐
 (c) To merge two sheets ☐
 (d) To display data in pivot format ☐
38. Which Excel tools helps in creating charts step by step ?
 (a) Pivot Table ☐ (b) ChartWizard ☐
 (c) Data Validation ☐ (d) Goal Seek ☐
39. Which of the following is a basic element of a slide ?
 (a) Chart ☐ (b) Text box ☐
 (c) Picture ☐ (d) All of the above ☐
40. What is the purposed of Slide Show View?
 (a) To design slides ☐ (b) To view all slide together ☐
 (c) To present the slideshow to an audience ☐ (d) To print slides ☐
41. To rearrange slides, which view is most convenient?
 (a) Notes View ☐ (b) Slide Sorter View ☐
 (c) Reading View ☐ (d) Outline View ☐
42. What is grouping used for in PowerPoint?
 (a) Arranging slides in a folder ☐ (b) Combining multiple objects as one ☐
 (c) Sorting slides by title ☐ (d) Creating a playlist of slide ☐
43. Which effect allows you to create custom paths for object movement?
 (a) Emphasis ☐ (b) Motion Path ☐
 (c) Fade ☐ (d) Creating a playlist of slides ☐
44. Internet Governance deals with:
 (a) Creating websites ☐
 (b) Setting rules and policies for using the internet ☐
 (c) Speed of internet ☐
 (d) Domain name registration only ☐
45. One way to prevent cybercrime is :
 (a) Ignoring strange emails ☐ (b) Using strong password ☐
 (c) Installing antivirus software ☐ (d) Goal Seek ☐

46. What is the key difference between HTTP and HTTPS ?
- (a) HTTPS is slower ☐
- (b) HTTPS uses encryption for secure communication ☐
- (c) HTTP is more secure ☐
- (d) HTTPS uses less band width ☐
47. Which search engine is developed by Microsoft ?
- (a) Yahoo ☐ (b) Google ☐
- (c) Bing ☐ (d) Opera ☐
48. Which of the following is NOT an email client?
- (a) Microsoft Outlook ☐ (b) Mozilla Thunderbird ☐
- (c) Gmail ☐ (d) Excel ☐
49. What does SMTP stand for?
- (a) Simple Mail Transfer Protocol ☐ (b) Secure Mail Transfer Programme ☐
- (c) Send Mail through Protocol ☐ (d) Software Mail Text Platform ☐
50. What does the structure of an email typically include?
- (a) Only the message ☐ (b) Header and body ☐
- (c) Code only ☐ (d) Browser data ☐

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Part B
Simple Arithmetic
(25 X 2 = 50 Marks)

1. The sum of squares of first 50 natural number is?
- (a) 43895 ☐ (b) 52950 ☐
- (c) 68950 ☐ (d) 42925 ☐
2. What least number must be subtracted from 518, so that the sum is completely divisible by 13?
- (a) 7 ☐ (b) 11 ☐
- (c) 13 ☐ (d) 17 ☐
3. Simplify?
- $3[-2 - \{4 + 2(6 \times 2 \div 4 + 7 - 3)\}]$
- (a) -60 ☐ (b) -54 ☐
- (c) 38 ☐ (d) 42 ☐
4. What value come in the place of question mark ?
- $? \div 8 \times 31 = 127.5 - 3.5$
- (a) 1158 ☐ (b) 578 ☐
- (c) 1024 ☐ (d) None of the above ☐
5. The square root of $(272^2 - 128^2)$ is
- (a) 288 ☐ (b) 340 ☐
- (c) 240 ☐ (d) 144 ☐
6. Which of the following numbers is a perfect cube?
- (a) 19,687 ☐ (b) 10,648 ☐
- (c) 4,098 ☐ (d) 4,919 ☐
7. The average age of 27 students in a class is 22 years. When the teacher's age is included, the average age increases by 1 year. What is the teacher's age?
- (a) 50 years ☐ (b) 52 years ☐
- (c) 48 years ☐ (d) 42 years ☐

8. The average of 30 numbers is 40, and the average of another 40 numbers is 30. What is the average of all the numbers combined ?
 (a) 34.5 ☐ (b) $34\frac{2}{7}$ ☐
 (c) 35 ☐ (d) 34 ☐
9. The marked price of an almirah is Rs. 12,000. It was sold for Rs. 10,500 after a discount was applied. What is the rate of discount??
 (a) 10% ☐ (b) 12% ☐
 (c) 12.5 % ☐ (d) 15% ☐
10. A shopkeeper sold an item for Rs. 18,000 after giving a 10% discount and made a profit of Rs. 2,000. What would have been his percentage profit if he had sold the item without offering any discount ?
 (a) 12% ☐ (b) 15% ☐
 (c) 25% ☐ (d) 30 ☐
11. A number exceeds 20% of itself by 40. What is the number?
 (a) 50 ☐ (b) 60 ☐
 (c) 80 ☐ (d) 48 ☐
12. Rami's weight is 25% that of Mawii and 40% that of Thari. What percentage of Thari's weight is equal to Mawii's Weight ?
 (a) 120% ☐ (b) 140% ☐
 (c) 150% ☐ (d) 160% ☐
13. A man sold 20 apples for Rs. 100 and gained 20%. How many apples did he buy for?
 (a) 22 ☐ (b) 24 ☐
 (c) 20 ☐ (d) 25 ☐
14. An article is sold at a 5% profit. What is the ratio of the selling price to the cost price?
 (a) 1 : 5 ☐ (b) 5 : 1 ☐
 (c) 21 : 20 ☐ (d) 20 : 21 ☐
15. The angles of a quadrilateral are in the ratio 4:2:5:7. What is the measure of the smallest angle ?
 (a) 20° ☐ (b) 40° ☐
 (c) 80° ☐ (d) None of these ☐
16. A bag contains Rs 840 in Rs. 1, Rs. 2 and Rs. 5 coins. The coins are in the ratio 8:1:5, respectively. How many Rs 5 coins are there in the bag?
 (a) 60 ☐ (b) 24 ☐
 (c) 600 ☐ (d) 120 ☐
17. Sumparlawma starts a business with an investment of Rs. 4,00,000. Four months later, Tangkaliana joins him by investing Rs. 5,00,000. At the end of one year, the business earns a profit of Rs. 2,20,000. What is Sumparlawma's share of the profit?
 (a) Rs. 1,00,000 ☐ (b) Rs. 1,20,100 ☐
 (c) Rs. 80,000 ☐ (d) Rs. 1,50,000 ☐
18. Amar, Akbar and Anthony invested capital in the ratio 2 : 3 : 5. At the end of the business term, they received profits in the ratio 5 : 3 : 12. Find the ratio of time for which each of them invested their capital?
 (a) 10 : 9 : 60 ☐ (b) 24 : 15 : 10 ☐
 (c) 30 : 25 : 27 ☐ (d) 25 : 10 : 24 ☐
19. If 12 men can complete a task in 20 days, how many days will 15 men take to complete the same task ?
 (a) 16 Days ☐ (b) 12 Days ☐
 (c) 24 Days ☐ (d) 15 Days ☐

20. If 6 men or 8 women can reap a field in 86 days, how long will 14 men and 10 women take to reap the same field ?
- (a) 20 Days ☐ (b) 24 Days ☐
(c) 15 Days ☐ (d) 20 Days ☐
21. A man travels a certain distance at a speed of 12 km/h and returns at a speed of 9 km/h. If the total time taken for the entire journey is 2 hours and 20 minutes, what is the distance (one way) ?
- (a) 12 km ☐ (b) 9 km ☐
(c) 35 km ☐ (d) 21 km ☐
22. Amosa and Zopari walk in opposite direction at speed of 3 km/h and 2 km/h, respectively. How far apart will they be after 2 hours?
- (a) 6 km ☐ (b) 8 km ☐
(c) 10 km ☐ (d) 2 km ☐
23. The deference between compound interest and simple interest for 2 years at the rate of 5% per annum is Rs. 5, then find the sum.
- (a) Rs. 2000 ☐ (b) Rs. 1200 ☐
(c) Rs. 1000 ☐ (d) None of these ☐
24. A rectangular grass plot measuring 80m x 60m has two roads, each 10m wide, running through its center - one parallel to the length and the other parallel to the breath. Find the total area covered by the roads.
- (a) 1400 m² ☐ (b) 1200 m² ☐
(c) 1500 m² ☐ (d) 1300 m² ☐
25. Find the volume of a circle with a base diameter of 14cm and a height of 80cm.
- (a) 14580 cm³ ☐ (b) 12320 cm³ ☐
(c) 12560 cm³ ☐ (d) 12340 cm³ ☐

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General Intelligence & Readsoning
(25X2 = 50 Marks)

26. What come in place of the question mark ?
6, 11, 21, 36, 56 ?
- (a) 61 ☐ (b) 71 ☐
(c) 81 ☐ (d) 91 ☐
27. How many yards are in one foot ?
- (a) 12 ☐ (b) 3 ☐
(c) 7 ☐ (d) 4 ☐
28. If SUMMER is coded as RUNNER, the code for WINTER is
- (a) VINUER ☐ (b) XJOUER ☐
(c) SUITER ☐ (d) VIOUER ☐
29. If NERO is coded as 52, what would be the code for SADDAM in the same coding scheme?
- (a) 42 ☐ (b) 58 ☐
(c) 62 ☐ (d) 38 ☐
30. Find the missing character
- | | | |
|---|---|---|
| E | M | H |
| N | O | A |
| I | ? | D |
- (a) N ☐ (b) P ☐
(c) M ☐ (d) R ☐

31. Arrange the word given below in a meaningful sequence.
1. Interview 2. Advertisement 3. Probation 4. Selection 5. Application
6. Appointment
- (a) 2,5,4,1,6,3 ☐ (b) 2,5,1,4,6,3 ☐
(c) 5,2,4,1,6,3 ☐ (d) 2,5,1,4,3,6 ☐
32. Biaka said "This girl is the wife of the grandson of my mother". Who is Biaka to the girl?
- (a) Father ☐ (b) Father-in-law ☐
(c) Uncle ☐ (d) Husband ☐
33. The total ages of Kima, Rema and Hminga is 80 years. What was the total of their ages three years ago ?
- (a) 77 ☐ (b) 72 ☐
(c) 71 ☐ (d) 74 ☐
34. Select the word which cannot be formed using the letters of the 'DELIGHTEN'
- (a) DELIGENT ☐ (b) LIGHTEN ☐
(c) TENTH ☐ (d) THIN ☐
35. Which set of letters, when sequentially placed in the blanks, will complete the letter series?
a _ cdaab _ cc _ daa _ bbb _ cdddd
- (a) bbdac ☐ (b) bbabc ☐
(c) aacbb ☐ (d) dbbca ☐
36. Which of the following is different from others?
- (a) Triangle ☐ (b) Square ☐
(c) Parallelogram ☐ (d) Rhombus ☐
37. Which of the conclusion follows the given statement ?
Statements : Some ants are parrots. All the Parrots are apples.
Conclusions : 1) All the apples are parrot
2) Some ants are apples.
- (a) Only (1) conclusion follows ☐ (b) Only (2) conclusion follows ☐
(c) Both (1) and (2) follow ☐ (d) Neither (1) or (2) follows ☐
38. Four friends - A,B,C and D-live in the same locality. B's house is east of A's house and north of C's house. C's house is west of D's house. in which direction is D's house from A's house?
- (a) North-east ☐ (b) South-east ☐
(c) North-west ☐ (d) South-west ☐

Directions. Read the following statement carefully and answer question No. 39 & 40. Six friends are sitting in a circle and are facing the centre of the circle. Dika is between Pianga and Puia. Pari is between Muanga and Liana. Pianga and Muanga are opposite to each other.

39. Who is just right to Puia ?
- (a) Dika ☐ (b) Muanga ☐
(c) Pianga ☐ (d) Liana ☐
40. Who is sitting opposite to Pari?
- (a) Pianga ☐ (b) Puia ☐
(c) Dika ☐ (d) Liana ☐

41. **Directions** : The statement is followed by two assumptions. Consider the statement and decide which of the assumptions is implicit.
Statement : It is desirable to put the child in school at the age of 5 or so.
Assumptions:

- I. At that age the child reaches appropriate level of development and is ready to learn.
 II. The schools do not admit children after six years of age

- (a) Only assumption I is implicit ☐ (b) Only assumption II is implicit ☐
 (c) Either I or II is implicit ☐ (d) Neither In nor II is implicit ☐

42. In a row of trees, a particular tree is positioned 7th from the left end and 14th from the right end. What is the total number of trees in the row?

- (a) 21 ☐ (b) 20 ☐
 (c) 22 ☐ (d) 18 ☐

43. If AIZAWL is written as BJABXM, then what will be the code for LUNGLEI?

- (a) MOVHMFJ ☐ (b) MVOHMFJ ☐
 (c) HOMVMFJ ☐ (d) MVOHMFJ ☐

44. Optimist is to cheerful as pessimist is to

- (a) Petty ☐ (b) Helpful ☐
 (c) Mean ☐ (d) Gloomy ☐

45. Choose the alternative which is closely resembles the mirror image of the given combination.

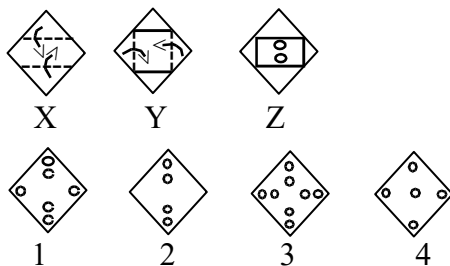
1. TERMINATE 2. TEMIRNAET 3. NELLIMTE 4. IERNATEM
 (a) 1 ☐ (b) 2 ☐
 (c) 3 ☐ (d) 4 ☐

46. Choose the alternative which is closely resembles the water-image of the given combination.

1. FROG 2. GORF 3. GORH 4. FROF
 (a) 1 ☐ (b) 2 ☐
 (c) 3 ☐ (d) 4 ☐

47. Figures X, Y and Z show a sequence of folding of a piece of paper. Figure Z shows the manner in which the folded paper has been cut. Choose a figure which would most closely resemble the unfolded form of Figure (Z)

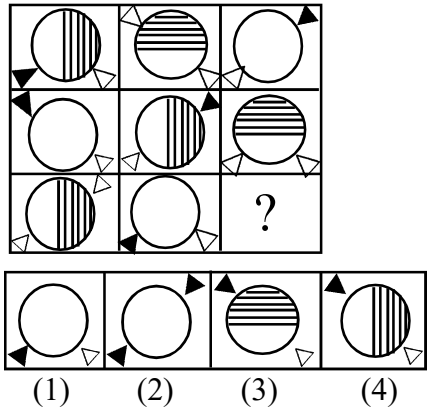
Paper Cutting Process



Answer Figures

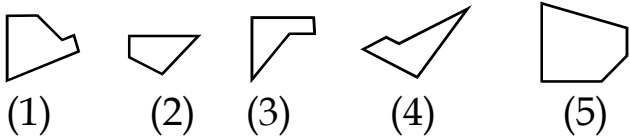
- (a) 1 ☐ (b) 2 ☐
 (c) 3 ☐ (d) 4 ☐

48. Select a suitable figure from the four alternatives that would complete the figure matrix.



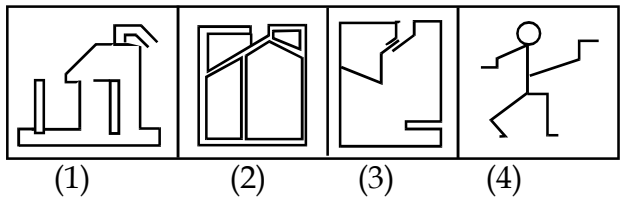
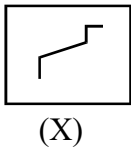
- (a) 1 ☐ (b) 2 ☐ (c) 3 ☐ (d) 4 ☐

49. Among the five given figure segments, select the combination of three that, when appropriately assembled, will form a complete square.



- (a) 245 ☐ (b) 145 ☐
(c) 134 ☐ (d) 234 ☐

50. Find out the alternative figure which contains figure (x) as it's part.



- (a) 1 ☐ (b) 2 ☐
(c) 3 ☐ (d) 4 ☐