

**GOVERNMENT OF MIZORAM
HEALTH AND FAMILY WELFARE DEPARTMENT**

EXAMINATION FOR RECRUITMENT TO THE POST OF LOWER DIVISION CLERK - 2023
(All questions are multiple choice questions. Attempt all questions. Each question carries 2 marks)
Full Mark: 200 marks; Time allowed: 3 hours

PAPER – II

(SIMPLE ARITHMETIC – 100 MARKS)

1. Which of the following is a rational number between 3 and 4?
(A) $12/7$ (B) $11/4$ (C) $14/4$ (D) $5/3$
2. $3\sqrt{5} + 2\sqrt{5}$ equals to:
(A) $6\sqrt{5}$ (B) $5\sqrt{5}$ (C) $\sqrt{25}$ (D) $5\sqrt{10}$
3. Which of the following is equal to x^6 :
(A) $x^{11} - x^5$ (B) x^{11}/x^5 (C) $x^{11} \cdot x^5$ (D) $(x^{11})^5$
4. What smallest number should be subtracted from 8972 so that it is divisible by 6?
(A) 1 (B) 2 (C) 3 (D) 4
5. What will be the remainder when 7^{27} is divided by 340?
(A) 5 (B) 4 (C) 3 (D) 2
6. Which of the following fraction is the smallest?
(A) $14/17$ (B) $13/14$ (C) $25/21$ (D) $55/35$
7. The sum of the squares of three consecutive numbers is 434, what is the sum of the numbers?
(A) 33 (B) 34 (C) 35 (D) 36
8. The sum of the digits of a two-digit number is 9 and the difference of the digits of the number is 5, what will be the number?
(A) 27 or 72 (B) 54 or 45 (C) 28 or 82 (D) 81 or 18
9. If a and b are the square of an odd number, then which of the following is an even number?
(A) $a + b + 2$ (B) $a + b + 3$ (C) $a + b + 2ab$ (D) None of these
10. If three-fifth of a number equals to 70% of another number, what is the ratio of the numbers?
(A) 6 : 7 (B) 7 : 6 (C) 3 : 5 (D) 5 : 3
11. Find the value of x in $124 \div 2^2 \times x = 17\% \text{ of } 600 - 3^2$.
(A) 5 (B) 4 (C) 3 (D) 2
12. Find the value of $5 \times [6 \times 2\{3 \times 7 \div (5 \times 3)\}]$
(A) 15 (B) 27 (C) 76 (D) 84

13. The average of 10 numbers is 0. Out of them, at the most, how many number can be possibly greater than 0?
 (A) 1 (B) 6 (C) 9 (D) Infinite
14. The average age of three persons is 15 years and the ratio of their age is 3 : 5 : 7. What is the age of the youngest person?
 (A) 9 (B) 15 (C) 18 (D) 21
15. The ratio of the cost of paper, pencil and pen is 2 : 1 : 5 and the cost of pen is Rs. 55, what will be the cost of 6 pencils?
 (A) Rs. 6 (B) Rs. 35 (C) Rs 66 (D) Rs 75
16. How much is 10% of 10% of 100?
 (A) 1 (B) 5 (C) 10 (D) 20
17. If 20% of the cost of an article is discounted, Rs. 100 is still to be paid. How much was the cost of the article?
 (A) Rs 75 (B) Rs 125 (C) Rs. 120 (D) Rs 200
18. The price of a cloth was increased by 10% and later decreased by 20%. What is the percentage change in the final price?
 (A) 10% (B) 11% (C) 12% (D) 20%
19. Sanga sells his cow to Mawia at 10% loss. If Mawia sells it at Rs 5400 and gains 20%, the cost price of the cow when Sanga bought it was:
 (A) Rs 3000 (B) Rs 4500 (C) Rs 5000 (D) Rs 5500
20. The ratio of the cost price and the selling price is 3 : 6. The profit percent is:
 (A) 100 % (B) 30 % (C) 50 % (D) 75 %
21. Zuala bought cloths worth Rs. 5000. He sold $\frac{1}{3}$ rd of it incurring a loss of 40%. What profit must he earn on the rest of the cloths to nullify this loss?
 (A) 20 % (B) 25 % (C) 50 % (D) 45 %
22. What is the area of rhombus whose diagonals are of lengths 10 cm and 8.2 cm?
 (A) 82 cm^2 (B) 55 cm^2 (C) 45 cm^2 (D) 41 cm^2
23. What is the total surface area of cuboid 20 cm x 15 cm x 10 cm?
 (A) 1200 cm^2 (B) 1300 cm^2 (C) 1350 cm^2 (D) 1400 cm^2
24. Find the length of a rectangular field whose breadth is 17 m with total area 357 m^2 .
 (A) 21 m (B) 19 m (C) 17 m (D) 25 m

25. The radius of a circular field is 7 m. If a fence is built around the field, what is the length of the field?
 (A) 44 m (B) 49 m (C) 55 m (D) 66 m
26. The average weight of 20 students is 45 kg. If one student weighing 40 kg left and two new students are added, the average weight of the class is increased by 1 kg. Find the average weight of the two new students.
 (A) 41 kg (B) 47 kg (C) 53 kg (D) 55 kg
27. At what percent above the cost price must an article be marked so that after giving 5% discount a shopkeeper may gain 33% profit?
 (A) 37 % (B) 28 % (C) 45 % (D) 40 %
28. Mawia earns a profit of 25% on selling an article at 15% discount on the printed price. Find the ratio of the printed price and the cost price of the article.
 (A) 25 : 17 (B) 20 : 13 (C) 15 : 8 (D) 9 : 4
29. In a city, 55% of the population is female. 80% of the male population is literate. How much percent of female is literate if total literacy is 58%?
 (A) 40% (B) 35% (C) 45% (D) 50%
30. If 40% of the greater number is equal to 60% of the smaller number and their sum is 150, then the greater number is _____.
 (A) 90 (B) 80 (C) 70 (D) 60
31. Sanga's mark in Maths and English is in the ratio 2 : 3. The sum of his marks in Maths, English and Science is 280. If his mark in Science is thrice the mark in English, what is his mark in Science?
 (A) 219 (B) 180 (C) 140 (D) 130
32. $A : B = 4 : 7$ and $B : C = 9 : 7$. If $A = 72$, then what is the value of C ?
 (A) 109 (B) 98 (C) 76 (D) 63
33. The capitals of Rina, Sanga and Zaia are Rs. 2000, Rs. 1500 and Rs. 1000 respectively. Profits are shared in the ratio 3 : 2 : 1. Sanga retires and his share is purchased by his partners. The new ratio between Rina and Zaia is 3 : 1. Find the new capitals of Rina and Zaia.
 (A) Rs. 1925 and Rs. 900 (B) Rs. 2550 and Rs. 2150
 (C) Rs. 3125 and Rs. 1375 (D) Rs. 1725 and Rs. 950
34. Siama and Saia are partners and share profit in the ratio 2 : 1. They are joined by Mawia who is given one-fifth share of the profit. The new profit ratio will be:
 (A) 3 : 2 : 1 (B) 5 : 3 : 2 (C) 8 : 4 : 3 (D) 4 : 2 : 1
35. Running at a constant rate, 6 identical machines can produce a total of 270 cup per minute. At this rate, how many cup could 10 such machines produce in 4 minutes?
 (A) 1800 (B) 1200 (C) 900 (D) 650

36. An army had provision of food for 150 men for 45 days. After 10 days, 25 men left. The number of days the remaining food will last is:
 (A) 24 days (B) 36 days (C) 42 days (D) 54 days
37. Thanga completes fifth-eighth of a job in 10 days. At this rate, how many more days will it take him to finish the job?
 (A) 3 days (B) 4 days (C) 5 days (D) 6 days
38. Zuala and Siama together can complete a work in 3 days. But after 2 days, Siama left. If the remaining work is completed after 2 more days, Siama alone can do the work in how many days?
 (A) 4 days (B) 5 days (C) 6 days (D) 7 days
39. A and B can run with a speed of 4 km/h and 5 km/h respectively. Starting from the same place, A started running 1 hour before B. After how many hours will they run together after B started running?
 (A) 4 hours (B) 5 hours (C) 6 hours (D) 20 hours
40. A man is late by 10 minutes while moving with 20 km/h from his house to his office. If he moves with 25 km/h, he reaches his office 5 minutes earlier. Find the distance between his house and his office.
 (A) 20 km (B) 25 km (C) 28 km (D) 32 km
41. A 5 m long ladder is leaning against a wall and it reaches the wall at a point 3 m high. If the foot of the ladder is moved 2.6 m towards the wall, find the distance the top of the ladder slides upward on the wall.
 (A) 1.08 m (B) 1.8 m (C) 2.4 m (D) 3.2 m
42. A sum of Rs 40000 with 16% rate of interest per annum makes Rs. 9600 as interest. Find the time needed to make such sum of interest.
 (A) 2 years (B) 1.6 years (C) 1.5 years (D) 2.5 years
43. Kunga invested 40% of his money at 25% interest per annum and the rest at 20% per annum. What will be the rate of interest per annum of the whole money?
 (A) 23% (B) 24 % (C) 21% (D) 22%
44. A sum of money at simple interest doubles in 10 years. In how many years will it be tripled at the same rate of interest?
 (A) 20 years (B) 15 years (C) 25 years (D) 30 years
45. The simple interest on a sum for 6 years is Rs. 29250. The rate of interest for the first 2 years is 7% and for the next 4 years is 16%. How much is the sum?
 (A) Rs. 37500 (B) Rs. 37000 (C) Rs. 38000 (D) Rs. 35000
46. If the simple interest for 2 years for a sum of money is Rs. 500 at 10% rate of interest per annum. Find the compound interest for the same.
 (A) Rs. 510 (B) Rs. 525 (C) Rs. 575 (D) Rs. 635

47. The length of a room is 5.5 m and its breadth is 3 m. Find the cost of making floor tile on its floor at the rate of Rs. 500 per meter square.
 (A) Rs. 5350 (B) Rs. 8250 (C) Rs. 6570 (D) Rs. 7750
48. A wire is bent to form a square of side 22 cm. If the wire is bent again to form a circle, what will be its radius?
 (A) 22 cm (B) 18 cm (C) 17 cm (D) 15 cm
49. The difference between the length and breadth of a rectangular field is 23 m. If its perimeter is 206 m, find its area.
 (A) 1525 m² (B) 765 m² (C) 2520 m² (D) 2650 m²
50. The length, breadth and height of a cuboidal room are 13 m, 12 m and 15 m respectively. What is the cost of painting the four walls of the room at Rs. 9 per m²?
 (A) Rs. 5325 (B) Rs. 5750 (C) Rs. 6350 (D) Rs. 6750

(BASIC COMPUTER KNOWLEDGE – 100 MARKS)

51. Who is regarded as the father of personal computer?
 (A) Alan Turing (B) Charles Babbage
 (C) Simur Gray (D) Henry Edward Roberts
52. What is a combination of hardware and software that facilitates the sharing of information between computing devices?
 (A) Peripheral (B) Network (C) Source code (D) Digital device
53. Which of the following is part of the CPU?
 (A) ALU (B) Printer (C) NIC Card (D) Joystick
54. The vertical space between lines of text in a document is called _____.
 (A) double-space (B) vertical-space (C) formatting (D) line spacing
55. What does DMA stands for?
 (A) Distinct Memory Access (B) Direct Memory Access
 (C) Direct Module Access (D) Direct Memory Allocation
56. Computer size was very large in _____.
 (A) 1st Generation (B) 2nd Generation (C) 3rd Generation (D) 4th Generation
57. Human beings are called Homo Sapiens. Which is called Silico Sapiens?
 (A) Computer (B) Monitor (C) Software (D) Hardware
58. COBOL is widely used in _____ applications.
 (A) scientific (B) commercial (C) space (D) mathematical
59. The key to close a selected drop-down list, cancel a command and close a dialog box is:
 (A) Tab (B) Esc , (C) Del (D) Backspace

60. Which of the following has the smallest storage capacity?
 (A) Megabyte (B) Gigabyte (C) Terabyte (D) Petabyte
61. What kind of memory is both static and non-volatile?
 (A) Cache (B) RAM (C) ROM (D) BIOS
62. Which of the following is not an example of real security and privacy risks?
 (A) Identity theft (B) Hackers (C) Viruses (D) Spam
63. Computers manipulate data in many ways and this manipulation is called _____.
 (A) batching (B) upgrading (C) processing (D) utilizing
64. To access properties of an object, the mouse technique to use is _____.
 (A) dragging (B) dropping (C) left click (D) right click
65. _____ is the ability of a device to jump directly to the requested data.
 (A) Sequence access (B) Quick access
 (C) Random access (D) All of these
66. The file system 'NTFS' stands for _____.
 (A) New Type Filing System (B) Newer Terminal File System
 (C) Non Terminal File System (D) New Technology File System
67. You should protect your computer from _____.
 (A) viruses (B) time bombs (C) worms (D) All of these
68. Which of the following is a program group?
 (A) Word pad (B) Accessories (C) Paint brush (D) None of these
69. Which screen displays the name of the computer user on the computer?
 (A) Welcome screen (B) Wish list screen
 (C) Command screen (D) Start up screen
70. Which mode loads minimal set of drivers when starting Windows?
 (A) Normal mode (B) VGA mode (C) Network mode (D) Safe mode
71. Which is the drive containing the files to be copied?
 (A) USB drive (B) VGA drive (C) Source drive (D) Destination drive
72. What is the function of radio button?
 (A) To select multiple option (B) To select single option
 (C) To select all option (D) To select simultaneous option
73. The _____ menu contains commands associated with the My Computer window.
 (A) Standard (B) Start (C) System (D) Operating
74. Windows displays various options to shutdown. Which is suitable at the end of the day?
 (A) Restart (B) Shutdown (C) Sleep (D) Hibernate
75. The memory resident portion of operating system is called the _____.
 (A) Registry (B) Kernel (C) Shell (D) CMOS

76. Which is used for adding color, grays or patterns to lines or paragraphs to emphasize text in MS Word?
 (A) Borders (B) Shading (C) Highlighting (D) Drawing
77. The short cut for aligning the paragraph to the right in MS Word is _____.
 (A) Shift+R (B) Ctrl+B (C) Ctrl+W (D) Ctrl+R
78. The short cut F7 key is used in MS Word for _____.
 (A) spell check (B) new folder (C) save document (D) page up
79. Background color or effects applied on a document in MS Word is not visible in _____.
 (A) Reading view (B) Print Layout view
 (C) Print Preview (D) Web Layout view
80. Which of the following is not a font style in MS Word?
 (A) Bold (B) Superscript (C) Regular (D) Italics
81. How can you disable extended selection mode in MS Word?
 (A) Press Del (B) Press Esc (C) Press F8 (D) Press F2
82. In MS Word, Control + Z is used for _____.
 (A) Save (B) Copy (C) Page down (D) Undo
83. Which key is used to increase left indent in MS Word?
 (A) F10 (B) Ctrl+M (C) Alt+I (D) Ctrl+L
84. How do you magnify your document in MS Word?
 (A) Zoom, View (B) Tools, Option (C) Format, Font (D) Tool, Customize
85. Each excel file is called a workbook because _____.
 (A) it can contain many worksheets (B) it can contain text and data
 (C) it can be modified (D) it looks like a book
86. Without using the arrow key or the mouse, what is the fastest way to get to cell A1 in a spreadsheet in Excel?
 (A) Ctrl+pageup (B) Ctrl+Home (C) Shift+Home (D) Alt+Home
87. What is the default header for a worksheet in Excel?
 (A) Your name (B) Date & Time (C) None/blank (D) Sheet tab name
88. Comments can be added to cells in Excel using _____.
 (A) Edit, comment (B) File, comment (C) View, comment (D) Insert, comment
89. The main purpose of spreadsheet program in Excel is _____.
 (A) computer-aided design (B) file maintenance
 (C) production of text documents (D) to store, manipulate and analyze data
90. Comments put in a cell in Excel are called _____.
 (A) Cell tip (B) Smart tip (C) Web tip (D) Soft tip
91. IP address is currently _____.
 (A) 2 bytes (B) 4 bytes (C) 6 bytes (D) 8 bytes

92. The process of converting digital to analog signal is _____.
 (A) inhibition (B) ethernet (C) modulation (D) networking
93. If you want to create a broadcast that could be downloaded from the internet, what would you create?
 (A) Podcast (B) EShow (C) ICast (D) None of these
94. _____ is called an act of copying or downloading a program from the network and making multiple copies of it.
 (A) Plagiarism (B) Site piracy
 (C) Software piracy (D) Network piracy
95. _____ is used to protect data and passwords.
 (A) Encryption (B) Security (C) Authentication (D) Authorization
96. HTML document is saved using _____ extension.
 (A) .htlex (B) .html (C) .hml (D) .hlt
97. Search engine is used to _____.
 (A) search videos (B) search documents
 (C) search information on WWW (D) All of these
98. A home page in a web is _____.
 (A) a webpage describing a person's home (B) the main page of a website
 (C) a website to be access from home (D) a page in a home computer
99. What is a Cookie?
 (A) A small identifier file placed on the hard disk
 (B) A temporary internet file
 (C) Unsolicited mail sent to a large number of recipients
 (D) An unwanted file downloaded from the internet
100. When you go to Slide Sorter View in a PowerPoint, you see _____.
 (A) enlargements of all the slides in the presentation
 (B) miniatures of all the slides in the presentation
 (C) a new clipart library
 (D) a corresponding bar