

MIZORAM PUBLIC SERVICE COMMISSION
COMPETITIVE EXAMINATION FOR
SUB-INSPECTOR OF EXCISE & NARCOTICS
UNDER EXCISE & NARCOTICS DEPARTMENT, GOVERNMENT OF
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PAPER-II

Time Allowed : 3 hours

FM : 200

All questions carry equal marks of 2 each.
Attempt all questions.

1. A _____ is a digital electrical device that may be configured to automatically perform a series of logical or mathematical operations (computation).
 - (a) Microprocessor
 - (b) Integrated Circuit
 - (c) Transistor
 - (d) Computer
2. Which unit is responsible for converting the data received from the user into a computer understandable format?
 - (a) Memory Unit
 - (b) Arithmetic & Logic Unit
 - (c) Input Unit
 - (d) Output Unit
3. An extremely fast memory type that acts as a buffer between RAM and the CPU.
 - (a) Auxiliary
 - (b) Main
 - (c) Cache
 - (d) Virtual memory
4. Which of the following is designed to control the operations of a computer?
 - (a) Application Software
 - (b) System Software
 - (c) Utility Software
 - (d) Script
5. A form of microcode or program embedded into hardware devices to help them operate effectively.
 - (a) Middleware
 - (b) Package
 - (c) System Software
 - (d) Firmware
6. The _____ keyboard layout was created to make it easier for telegraph operators to transcribe Morse code.
 - (a) ZERTY
 - (b) QWERTY
 - (c) QWERTZ
 - (d) QZERTY
7. The _____ is a temporary storage area for files that have been deleted by the user.
 - (a) Trash Bin
 - (b) Deleted Bin
 - (c) Garbage Bin
 - (d) Recycle Bin
8. When would you use the **Ctrl+Alt+Delete** keyboard shortcut Windows OS?
 - (a) When a program first opens
 - (b) When you first boot up your computer
 - (c) When a program is unresponsive
 - (d) When you want to delete a file
9. A Window OS utility program that locates and eliminates unnecessary fragments and rearranges files and unused disk space to optimize operations.
 - (a) Disk Defragmenter
 - (b) Task manager
 - (c) Disk Cleanup
 - (d) Backup

10. What is the purpose of the Recent folder in Windows?
 - (a) To store files that are currently being used by the system and cannot be deleted
 - (b) To store system files that are necessary for the operation of Windows
 - (c) To store files that are no longer needed
 - (d) To display a list of recently used files
11. The latest Mac OS version release name is-
 - (a) Big Sur
 - (b) Monterey
 - (c) Sonoma
 - (d) Ventura
12. In MS Word, a text field where you can enter words and phrases about what you want to do next and quickly get to features you want to use or actions you want to perform.
 - (a) Tell me
 - (b) Search
 - (c) Find
 - (d) Find Me
13. When correcting spelling and grammar using Auto Correction in MS Word, the following options are available-
 - (a) Check spelling as you type
 - (b) Mark grammar as you type
 - (c) Frequently confused words
 - (d) All of the above
14. What is the use of Bookmark in MS Word?
 - (a) Identifying a text for future use
 - (b) Identifying headers and footers
 - (c) Pointing out the comments
 - (d) Identify fonts size
15. Which of the following is not alignment in MS Word?
 - (a) Left alignment
 - (b) Right alignment
 - (c) Middle alignment
 - (d) Center alignment
16. A huge capital letter with the width of two or more lines of conventional text that appears at the start of a text block or a paragraph in MS Word.
 - (a) Footnote
 - (b) Drop cap
 - (c) Tab stop
 - (d) Heading
17. A word processing feature that automatically transfers a word that has no insufficient space from the end of one line of text to the beginning of the next.
 - (a) Scaling
 - (b) Word Wrap
 - (c) WordArt
 - (d) Numbering
18. A shortcut key used in MS Word to move the cursor to the beginning of the document.
 - (a) Ctrl + Home
 - (b) Ctrl + O
 - (c) Ctrl + N
 - (d) Ctrl + C
19. A _____ allows you to link to other parts of the same document.
 - (a) Placeholders
 - (b) Bookmarks
 - (c) Objects
 - (d) Cross-reference
20. An Excel command which lets you copy formatting from one cell to another.
 - (a) Copier
 - (b) Formatter
 - (c) Format painter
 - (d) Duplicator
21. In Excel, _____ is used to change the appearance of cells in a range based on your specified conditions.
 - (a) Highlight Cell Rules
 - (b) Top/Bottom Rules
 - (c) Excel Manage Rules
 - (d) Conditional Formatting

22. A premade function in Excel, which calculates the average of a range based on one or more true or false condition?
- (a) AVERAGEIFS (b) AVERAGEIF
(c) AVERAGE (d) AVG
23. The SUMIF function is a premade function in Excel, which calculates the sum of values in a range based on which condition?
- (a) True (b) False
(c) True or False (d) None of the above
24. A functionality in Excel which helps you organize and analyze data, and lets you add and remove values, perform calculations, and to filter and sort data sets?
- (a) Chart (b) Color Scales
(c) Data bars (d) Pivot Table
25. How can you sum the values in cells A1 through A10 in Excel?
- (a) =SUM(A1:A10) (b) =TOTAL(A1:A10)
(c) =ADD(A1:A10) (d) =SUMMARY(A1:A10)
26. In MS Excel, filling can be used for-
- (a) Copying (b) Sequences
(c) Dates (d) All of the above
27. If a presentation contains one or more macros, PowerPoint automatically saves it as a-
- (a) .xps (b) .pptm
(c) .pptx (d) .ppt
28. MS PowerPoint that displays all slides as thumbnails and is useful for rearranging slides, checking the flow of your presentation, or applying transition effects.
- (a) Notes page view (b) Outline view
(c) Reading view (d) Slide Sorter view
29. The shortcut key to start the PowerPoint presentation from the current slide.
- (a) Alt+F5 (b) Shift+F5
(c) F5 (d) F4
30. The _____ contains all the features to change the look of your document in one place.
- (a) Control Tab (b) Insert Tab
(c) Design Tab (d) Transition Tab
31. In MS PowerPoint, a pre-formatted container on a slide for content (text, graphics, or video) is called-
- (a) Theme (b) Template
(c) Partition (d) Placeholder
32. Which of the following categories is not the transition in MS PowerPoint?
- (a) Transition (b) Subtle
(c) Exciting (d) Dynamic Content
33. In MS PowerPoint, Normal view displays slide thumbnails on the _____ side of the screen.
- (a) bottom (b) top
(c) right (d) left
34. Motion path in MS PowerPoint is-
- (a) A type of animation entrance effect (b) A method of advancing slides
(c) A method of moving items on a slide (d) All of the above

35. The first wide-area packet-switched network with distributed control and one of the first networks to implement the TCP/IP protocol suite.
- (a) NSFNET
 - (b) ARPANET
 - (c) DDN
 - (d) SATNET
36. _____ is a network security system that monitors and controls incoming and outgoing network traffic based on predetermined security rules.
- (a) Firewall
 - (b) Password Manager
 - (c) VPN
 - (d) Antivirus
37. Which one of the following protocols is used for E-mail services?
- (a) HTTP
 - (b) HTTPS
 - (c) FTP
 - (d) SMTP
38. A networking device that sends data packets from one computer network to another.
- (a) Switch
 - (b) Bridge
 - (c) Router
 - (d) Gateway
39. A typical _____ program creates some remote objects, makes references to these objects accessible, and waits for clients to invoke methods on these objects.
- (a) Server
 - (b) Client
 - (c) Thread
 - (d) Agent
40. _____ is used by web servers to identify and track users as they navigate different pages on a website, and to identify users returning to a website.
- (a) Cache
 - (b) History
 - (c) Cookie
 - (d) Bookmarks
41. What is the length of the IPv6 address?
- (a) 8 bit
 - (b) 16 bit
 - (c) 32 bit
 - (d) 128 bit
42. A private network contained within an enterprise that is used to securely share company information and computing resources among employees.
- (a) Internet
 - (b) Intranet
 - (c) Extranet
 - (d) Ethernet
43. A type of network topology in which all the devices or nodes are physically connected to a central node such as a router, switch, or hub.
- (a) Star topology
 - (b) Bus topology
 - (c) Ring topology
 - (d) Tree topology
44. An industry consortium that seeks to promote standards for the evolution of the Web and interoperability between www products by producing specifications and reference software.
- (a) World Wide Web Content
 - (b) World Wide Web Centre
 - (c) World Wide Web Consortium
 - (d) World Wide Web Commission
45. The first web browser was invented in 1990 called World Wide Web which was later renamed to _____.
- (a) Nexus
 - (b) Netscape Navigator
 - (c) Internet Explorer
 - (d) Mosaic
46. Which of the following is used to read a HTML page and render it?
- (a) Web server
 - (b) Web browser
 - (c) Web matrix
 - (d) Web network

47. The main objective of CELL in a cellular mobile system is-
- (a) Handoff (b) Simple modulation technique
(c) Frequency reuse (d) Higher bandwidth
48. The evolution of cell phone standards are from 1 G to 5 G, what does G indicate?
- (a) Gross (b) Generation
(c) General (d) Gap
49. The type of intercommunication cable that has the highest bandwidth is the-
- (a) Twisted-pair cable (b) Co-axial cable
(c) Open-wire cable (d) Optical Fiber Cable
50. Face recognition system is based on _____.
- (a) Applied AI (b) Machine learning
(c) Internet of things (d) Parallel AI
51. The largest natural number which divides every natural number of the form $(n^3-n)(n-2)$, where n is a natural number greater than 2 is -
- (a) 6 (b) 48
(c) 12 (d) 24
52. What is the simplified value of

$$1 - \frac{1}{4 - \frac{1}{1 + \frac{1}{\frac{1}{3} + 2}}} \times \frac{15}{16} \div \frac{2}{3} \text{ of } 2 \frac{1}{4} - \frac{3+4}{3^3+4^3}$$

- (a) $\frac{6}{13}$ (b) $\frac{8}{13}$
(c) $\frac{5}{13}$ (d) $\frac{4}{13}$
53. A, B and C invested in a ratio of 7:8:5 in a business. They got an annual profit of Rs. 1,36,800. If A and C withdraw their amount at the end of 3 months and 7 months respectively. Then, find the difference between A and C's share of profit.
- (a) Rs. 12,600.00 (b) Rs. 11,500.00
(c) Rs. 13,500.00 (d) Rs. 10,500.00
54. The monthly incomes of X and Y are in the ratio 4:3 and their monthly expenditures are in the ratio 3:2. However each saves Rs. 6,000 per month. What is their total monthly income?
- (a) Rs. 28,000 (b) Rs. 42,000
(c) Rs. 56,000 (d) Rs. 84,000
55. In 4 years, Rs. 6,000 amount to Rs. 8,000. In what time at the same rate, will Rs. 525 amount to Rs. 700?
- (a) 2 years (b) 3 years
(c) 4 years (d) 5 years
56. A hemisphere and a cone have equal bases. If their heights are also equal, then ratio of their curved surface will be -
- (a) 2:1 (b) 1:2
(c) $\sqrt{2}:1$ (d) $1:\sqrt{2}$

57. In how many ways, the letters of the word 'BANKING' can be arranged?
 (a) 5040 (b) 2540
 (c) 5080 (d) 2520
58. A vertical stick 12 m long casts a shadow 8 m long on the ground. At the same time, a tower stands a shadow of 40 m long on a ground. The height of the tower is -
 (a) 60 m (b) 65 m
 (c) 70 m (d) 72 m

Directions (Question Nos. 59-61): Study the following table to answer the given questions

Civil Services (CS)		Engineering Service (ES)		
Year	Total number of candidates appeared	Graduates out of the total candidates appeared (in %)	Total numbers of candidates appeared	Graduates out of the total candidates appeared (in %)
2007	58000	75	30000	52
2008	60000	60	36000	50
2009	70000	65	52000	40
2010	76000	50	40000	60

59. Total number of candidates who appeared for CS and ES together in 2011 was 25% more than the total number of candidates who appeared for the same together in 2010. How many female candidates appeared for both the exams together in 2011, if they formed $\frac{2}{5}$ th of the total number of candidates appearing for both CS and ES that year?
 (a) 52000 (b) 58000
 (c) 60000 (d) 62000
60. What is the respective ratio between the number of graduates who had appeared for ES in 2010 and the number of graduates who appeared for CS in 2010?
 (a) 13:21 (b) 12:17
 (c) 12:19 (d) 11:17
61. What is the difference between the average number of candidates who appeared for CS in the years 2007 and 2008 and average number of candidates who appeared for ES in the same years together?
 (a) 38400 (b) 24400
 (c) 26400 (d) 26000
62. What rate percent is one minute 12 seconds to an hour?
 (a) 2% (b) 3%
 (c) 4% (d) 5%
63. A and B can do a piece of work separately in 30 days and 20 days. How long will it take for both A and B together to do the work?
 (a) 12 days (b) 20 days
 (c) 24 days (d) 25 days
64. A shopkeeper purchased 300 bulbs for Rs. 10 each. However 20 bulbs were fused and had to be thrown away. The remaining were sold at Rs. 12 each. Find the gain or loss percent.
 (a) 10 % gain (b) 10 % loss
 (c) 12 % loss (d) 12 % gain

65. Find the value of m so that $(-3)^{m+1} \times (-3)^5 = (-3)^7$.
- (a) -1 (b) 1
(c) 13 (d) -13
66. What percent of 2.5 litre is 125 mL?
- (a) 10 % (b) 8 %
(c) 6 % (d) 5 %
67. If 40% of the students in a school are boys and the number of girls in the school is 540. How many boys are there in the school?
- (a) 360 (b) 390
(c) 420 (d) 460
68. Two numbers are in the ratio 8 : 3. If the sum of the numbers is 143. Find the difference of the two numbers.
- (a) 39 (b) 47
(c) 65 (d) 104
69. A bicycle wheel makes 5000 revolutions in moving 11 km. The diameter of the wheel is –
- (a) 35 cm (b) 49 cm
(c) 55 cm (d) 70 cm
70. A train is running at a speed of 72 km/hr passes a pole in the platform in 17 seconds. The length of the train is –
- (a) 340 m (b) 430 m
(c) 440 m (d) 360 m
71. 1 m/s is equal to –
- (a) $\frac{5}{18}$ km/hr (b) $\frac{18}{5}$ km/hr
(c) $\frac{3}{50}$ km/hr (d) $\frac{50}{3}$ km/hr
72. A can do a piece of work in 12 days and B can finish the same work in 15 days. They worked together for 3 days and the A leaves. Find the fraction of the work left.
- (a) $\frac{7}{20}$ (b) $\frac{11}{20}$
(c) $\frac{9}{20}$ (d) $\frac{3}{20}$
73. If $x = 3$ is one of the roots of the equation $kx^2 + 2x - 3 = 0$, then the value of k is –
- (a) $\frac{-1}{3}$ (b) $\frac{1}{3}$
(c) -3 (d) 3
74. If $27^x = \frac{81}{3^x}$, find the value of x .
- (a) -3 (b) 3
(c) -1 (d) 1

75. The length of the cuboid is double its breadth. Its height is 3 m and the area of its four walls is 108 m^2 . Find the length of the cuboid.
- (a) 14 m (b) 12 m
(c) 8 m (d) 6 m
76. A roller has 42 cm in radius and length 120 cm. How many revolutions will require to cover 7920 m long road?
- (a) 20 (b) 25
(c) 30 (d) 35
77. The mean of 50 numbers was found to be 45. Later on, it was detected that a number 26 was misread as 76. Find the correct mean of the given numbers.
- (a) 44 (b) 46
(c) 48 (d) 50
78. If $\frac{4}{3}$, x , 4 are in A.P. The value of x is –
- (a) $\frac{11}{3}$ (b) $\frac{10}{3}$
(c) $\frac{8}{3}$ (d) $\frac{4}{3}$
79. The simplest form of $\frac{x^2 - 4}{x^2 + x - 6}$ is –
- (a) $\frac{x+2}{x+3}$ (b) $\frac{x-2}{x+3}$
(c) $\frac{x+2}{x-2}$ (d) $\frac{x+3}{x-2}$
80. The 10th term from the end of the A.P. 17, 14, 11, ... -40 is –
- (a) 13 (b) -13
(c) 10 (d) -10
81. In a college, there are 54 girls who have car. If these constitute one fifth of the girls and the total number of girls is two-fifth of the total number of students in the college, what is the number of boys in the college?
- (a) 420 (b) 410
(c) 415 (d) 405
82. Rose is now a quarter as old as her mother Mary. Four years hence, Mary will be three times as old as her daughter. The age of Mary in years is-
- (a) 32 (b) 34
(c) 36 (d) 38
83. There are four friends Kima, Rema, Mala and Dika. In an examination, the sum of their marks is 450. Mala's marks are equal to the twice the sum of Rema and Dika's marks. Kima's marks are equal to Mala's marks. The person who gets 95 marks and above will go to the next level examination. Who are the people who go to the next level examination?
- (a) Kima and Mala (b) Mala and Rema
(c) Rema and Dika (d) Dika and Mala

84. Today is John's birthday. One year, from today he will be twice as old as he was 12 years ago. How old is John today?
 (a) 20 years (b) 22 years
 (c) 25 years (d) 27 years
85. Two bus tickets from Aizawl to Serchhip and three tickets from Aizawl to Siaha cost Rs. 77 but three tickets from Aizawl to Serchhip and two tickets from Aizawl to Siaha cost Rs. 73. What are the fares for Serchhip and Siaha from Aizawl?
 (a) Rs. 4 and Rs. 23 (b) Rs. 13 and Rs. 17
 (c) Rs. 15 and Rs. 14 (d) Rs. 17 and Rs. 13
86. In Choose the alternative which resembles the mirror image of the given combination

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(1) A P 1 0 1 N I A R A L

(2) A 1 0 1 4 N I A R A T

(3) A 1 0 1 4 T A R A I N

(4) A P 1 0 1 N I A R A T

- (a) (1) (b) (2)
 (c) (3) (d) (4)
87. Find the odd group of letters from the given alternatives.
 (a) EFRT (b) LMTV
 (c) HILM (d) STWY
88. From the options given below, select the one that is different from the other three series of numbers.
 (a) 2, 4, 72 (b) 1, 2, 9
 (c) 5, 3, 152 (d) 3, 4, 98
89. What is the next number in this sequence of 1, 3, 8, 19, 42, 89, ?
 (a) 108 (b) 184
 (c) 104 (d) 97
90. Some blankets are beds. Some pillows are blankets. All beds are pillows. From the given statements, the below conclusions are drawn:
 i. Some blankets are pillows.
 ii. Some pillows are beds.
 iii. Some beds are blankets.
 From the above conclusions, which option can be considered to follow:
 (a) None of the conclusions follow (b) All i, ii and iii follow
 (c) Only i and iii follow (d) Only i and ii follow
91. Select a suitable figure from the Answer Figures that would replace the question mark (?) in the Problem Figures.

Problem Figures



Answer Figures



- (1) (2) (3) (4)
- (a) (1) (b) (2)
 (c) (3) (d) (4)

92. A college in Lunglei wants to hold an essay competition highlighting the need for women empowerment in Mizo society. Which of the following topics seem most suitable for the competition?
- (a) Daughters of Mizoram : The Silent Fight for Rights
 - (b) Modern Mizo Society : Crime and Women
 - (c) From Kitchen to Rashtrapati Bhawan : Mothers of India
 - (d) Role of Women : Family and Society
93. Rama's mother is the only daughter of Mami's father. How is Mami's husband related to Rama?
- (a) Uncle
 - (b) Father
 - (c) Brother
 - (d) Grandfather
94. A is the son of B and C. B's sister has a son D and a daughter E. F is the maternal uncle of D. How many nephews does F have?
- (a) 0
 - (b) 1
 - (c) 2
 - (d) 3
95. Arrange the words given below in a meaningful sequence.
- i. Presentation
 - ii. Recommendation
 - iii. Arrival
 - iv. Discussion
 - v. Introduction
- (a) iii, v, i, iv, ii
 - (b) iii, iv, i, v, ii
 - (c) v, i, iii, ii, iv
 - (d) ii, iii, i, v, iv
96. Sequence: 4096, 1024, 256, _____, 16, 4, 1
The number option to complete the sequence correctly is-
- (a) 68
 - (b) 66
 - (c) 62
 - (d) 64
97. What among the given should replace the question mark?
TOK : SNJ :: LIP : ?
- (a) KJO
 - (b) MJQ
 - (c) MHQ
 - (d) KHO
98. What among the given should replace the question mark?
Square : Rectangle :: Circle : ?
- (a) Sphere
 - (b) Cylinder
 - (c) Triangle
 - (d) Ellipse
99. In a certain code language ROSE is coded as 6821, CHAIR is coded as 73456 and PREACH is coded as 961473, what will be the code for HOARSE?
- (a) 394821
 - (b) 384612
 - (c) 384621
 - (d) 394812
100. Today is Monday. After 61 days, it will be-
- (a) Saturday
 - (b) Thursday
 - (c) Wednesday
 - (d) Tuesday

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