

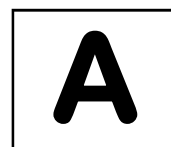
MIZORAM SUBORDINATE SERVICES SELECTION BOARD



COMPETITIVE EXAMINATION FOR RECRUITMENT TO THE POST OF JUNIOR SCIENTIFIC OFFICER UNDER MIZORAM FORENSIC SCIENCE LABORATORY, GOVERNMENT OF MIZORAM NOVEMBER - 2021

Question Booklet Series

PAPER – II



Time Allowed : 3 Hours

Maximum Marks : 200

INSTRUCTIONS

1. This paper consists of one hundred (100) multiple-choice type of questions.
2. Immediately after the commencement of the examination, you should check that this question booklet does not have any unprinted or missing pages or items, etc. If so, get it replaced by a complete booklet from the invigilator.
3. Please note that it is the candidate's responsibility to fill in all necessary details such as Roll Number, etc. and the Question Booklet Series A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.
4. Each question comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet.
5. You have to mark your responses **ONLY** on the separate OMR Answer Sheet provided.
Read instructions given in the OMR sheet carefully.
6. All questions carry equal marks.
7. Rough work is to be done in the spaces available in the question booklet.
8. You have to submit your Answer Sheet to the invigilators at the end of the examination compulsorily and must not carry it with you outside the Examination Hall. You are permitted to take away with you the question booklet on conclusion of examination.
9. There are no negative marks for incorrect answer.

1. The set of rules which specify how data will be transferred between computers which are in a network is called
(A) Indexes (B) Database
(C) Protocols (D) Crawler
2. What does “s” stand for in https?
(A) System (B) Secure
(C) Static (D) Simple
3. USB stands for
(A) Universal Serial Bus (B) Universal Semi Bus
(C) Union Serial Bus (D) Universal Serial Bridge
4. E-governance use
(A) Government (B) Intranet
(C) Internet (D) None of these
5. A semi-transparent image used as a background in a slide is called
(A) WordArt (B) Animation
(C) Footer (D) Watermark
6. A pixel is
(A) the smallest resolvable part of a picture
(B) a picture stored in secondary memory
(C) a computer program that stores pictures
(D) none of the above
7. HTTP is a
(A) Status Count Protocol (B) Stateless Protocol
(C) Status Transfer Protocol (D) Status Full Protocol
8. The Fourth Generation computers were based on
(A) Transistors (B) Microprocessors
(C) Artificial Intelligence (D) Integrated Circuits
9. What is the intersection of a column and a row on a worksheet called?
(A) Address (B) Value
(C) Cell (D) Column
10. The computer that processes both analog and digital is called
(A) Digital Computer (B) Hybrid Computer
(C) Analog Computer (D) Mainframe Computer
11. In the web address <http://mail.google.com/mail/>, the domain is
(A) google.com (B) http://mail
(C) /mail/ (D) .com/

12. Which of the following is not a Graphical Interface Operating System?
(A) Microsoft Windows (B) MacOS
(C) Ubuntu (D) MS-DOS
13. Applying various effects on a text document, such as bold or italics is called
(A) Line Spacing (B) Design
(C) Formatting (D) Inserting
14. Social networking involves communications between
(A) two computers (B) a computer and a router
(C) a human and a computer (D) two or more people
15. ASCII stands for
(A) American Standard Code for Information Interchange
(B) American Standard Code for International Interchange
(C) Australian Standard Code for Interchange
(D) American Standard Code for Intelligence Interchange
16. How many bytes is equivalent to 12 GB?
(A) 1024 (B) 1024×1024
(C) $1024 \times 1024 \times 1024$ (D) $1024 \times 1024 \times 1024 \times 1024$
17. Which of these is the process of dividing the disk into tracks and sectors?
(A) Tracking (B) Formatting
(C) Crashing (D) Allotting
18. The main international organization that sets standards for the WWW is
(A) IETF (Internet Engineering Task Force)
(B) InterNIC (Internet Network Information Centre)
(C) W3C (World Wide Web Consortium)
(D) None of the above
19. What is a Firewall?
(A) Hardware (B) Combination of hardware and software
(C) Software (D) None of these
20. Which is the first electronic digital computer?
(A) UNIVAC (B) EDVAC
(C) ENIAC (D) ARPANET
21. Who was the first person to use the internet?
(A) Charles Babbage (B) Charlie Kline
(C) Bill Gates (D) Charlie Jacobs
22. The ability to combine names and addresses with a standard document is called
(A) Form Letters (B) Database Management
(C) Document Formatting (D) Mail merge

23. Which is the high end computer on the internet that stores web pages and delivers them to the clients?
(A) Web Server (B) Web Browser
(C) World Wide Web (D) Website
24. What does the “cc” in email mean?
(A) Carbon Copy (B) Create Copy
(C) Cancel Copy (D) Confidential Copy
25. What is the meaning of Wifi?
(A) Wireless Function (B) Wireless Finetune
(C) Wireless Fidelity (D) Windows Function
26. The title of the first YouTube video uploaded was
(A) Vernal Lullaby (B) Stadion Bayen Muncheon
(C) Cybergoon Squad (D) Me at the Zoo
27. The huge numbers of devices connected to the internet have to communicate automatically not via humans. What is this called?
(A) Bot to Bot (B) Skynet
(C) InterCloud (D) Machine to Machine
28. A grammatical error in a Word Document in Microsoft Word is shown by
(A) green wavy line (B) red straight line
(C) green straight line (D) red wavy line
29. Which generation of computers introduced connection to printers?
(A) First generation (B) Second generation
(C) Third generation (D) Fourth generation
30. Moving from one website to another is called
(A) attachment (B) uploading
(C) browsing (D) downloading
31. Which part of the ribbon will you use to change the margin?
(A) Page Layout (B) View
(C) Insert (D) Home
32. Which of the following is used to connect a telephone line to a computer?
(A) Gateway (B) Modem
(C) Switch (D) Hub
33. A web browser is
(A) utility software (B) system software
(C) application software (D) all of these
34. What was the first Operating System developed for mobile technology?
(A) Android OS (B) Blackberry OS
(C) Windows OS (D) Palm OS

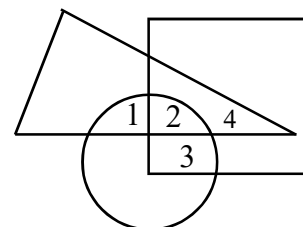
35. UNIVAC is
(A) Universal Automatic Computer (B) Unique Automatic Computer
(C) Universal Automation Computer (D) Unvalued Automatic Computer
36. The view that is used to see a miniature view of all slides in a PowerPoint Presentation is called
(A) Slide View (B) Outline View
(C) Slide Show View (D) Slide Sorter View
37. The long horizontal bar at the bottom of the screen of the computer which is always visible is called
(A) Taskbar (B) Menu bar
(C) Icon bar (D) Help bar
38. Unix Operating System is a
(A) multi-tasking OS (B) time sharing OS
(C) multi-user OS (D) all of these
39. Fiber optics has the advantage of
(A) using direct line-of-sight (B) having no interface
(C) being easier to install (D) being cheaper to install
40. Fifth Generation of computers is also known as
(A) Knowledge Information Processing System
(B) Very Large Scale Integration (VLSI)
(C) Both (A) and (B)
(D) Neither (A) nor (B)
41. MODEM stands for
(A) Modulation Demodulator (B) Modern Demodulation
(C) Modulator Demodulator (D) Modern Demodulator
42. The most recent version of the Internet Protocol (IP) is
(A) IPv4 (B) IPv5
(C) IPv6 (D) IPv7
43. In Microsoft Excel, to move from one cell to another in a table, we press
(A) Shift Key (B) Ctrl Key
(C) Tab Key (D) Enter Key
44. What is the extension of WordPad?
(A) .ttf (B) .rtf
(C) .txt (D) None of these
45. If you are using Bluetooth on your mobile, then the network used will be
(A) LAN (B) MAN
(C) Wifi (D) PAN

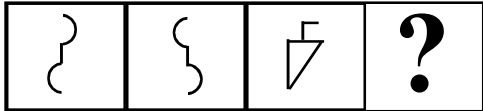
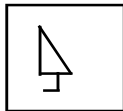
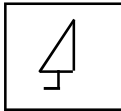
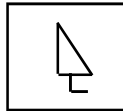
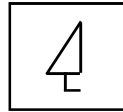
46. ICT stands for
(A) Information and Communication Technology
(B) International Communication Technology
(C) Information and Computer Technology
(D) Important Computer Technology
47. The Protocol used to download and upload files from your computer over the internet is called
(A) TCP (B) HTTP
(C) IP (D) FTP
48. In addition to communicating with I/O, the processor must communicate with the _____ unit.
(A) Control (B) Arithmetic Logic
(C) Memory (D) Process
49. What is the full form of IMEI?
(A) Internet Mobile Equipment Identity
(B) International Mobile Equipment Identity
(C) International Mobile Enquiry Identity
(D) Internet Mobile Enquiry Identity
50. Which one of the following is classified under primary memory of a computer?
(A) RAM (B) CD-ROM
(C) DVD (D) Floppy Disc
51. The value of $\left[3\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2} \left(2\frac{1}{2} - \frac{1}{4} - \frac{1}{6} \right) \right\} \right]$ is
(A) 70 (B) 76
(C) 78 (D) none of these
52. The square root of $(7 + 3\sqrt{5})(7 - 3\sqrt{5})$ is
(A) 2 (B) 4
(C) $4\sqrt{5}$ (D) $10\sqrt{5}$
53. 1849 students are sitting in an auditorium in such a manner that there are as many students in a row as there are columns in the auditorium. Find the number of rows in the auditorium?
(A) 37 (B) 43
(C) 53 (D) 47
54. If 15 men, working 9 hours a day can reap a field in 16 days, in how many days will 18 men reap the field, working 8 hours a day ?
(A) 18 (B) 16
(C) 9 (D) 15

55. Rs 120 is divided among A, B and C such that A's share is Rs 20 more than B and Rs 20 less than C. What is B's share ?
(A) Rs 10 (B) Rs 15
(C) Rs 20 (D) Rs 25
56. A can do a piece of work in 18 hours. In how many hours can A and B together do the work if B is twice as fast as A ?
(A) 3 hours (B) 4 hours
(C) 5 hours (D) 6 hours
57. A sum of money at simple interest amounts to Rs 815 in 3 years and to Rs 854 in 4 years. What is the sum?
(A) Rs 650 (B) Rs 700
(C) Rs 698 (D) Rs 690
58. The perimeter of a rectangular plot is 48m and area is 108 sq.m. The dimensions of the plot are
(A) 36m and 3m (B) 12m and 9m
(C) 18m and 6m (D) 27m and 4m
59. What is the angle of elevation of the sun, when the length of the shadow of a tree is $\sqrt{3}$ times the height of the tree ?
(A) 30° (B) 45°
(C) 60° (D) 90°
60. On simplifying $\frac{789 \times 789 \times 789 + 211 \times 211 \times 211}{789 \times 789 - 789 \times 211 + 211 \times 211}$ we get
(A) 789 (B) 211
(C) 1000 (D) 1100
61. A, B and C can complete a piece of work in 24, 6 and 12 days respectively. Working together, they will complete the same work in
(A) $\frac{7}{24}$ day (B) $3\frac{3}{7}$ days
(C) 3 days (D) 4 days
62. A person crosses a 600m long street in 5 minutes. What is his speed in km per hour?
(A) 3.6 (B) 7.2
(C) 8.4 (D) 10
63. Two students appeared at an examination. One of them secured 9 marks more than the other and his marks was 56% of the sum of their marks. The marks obtained by them are
(A) 39 and 30 (B) 41 and 32
(C) 42 and 33 (D) 43 and 34
64. If 13% of 1100 + 17% of 2100 = x + 26% of 350. The value of x is
(A) 409 (B) 411
(C) 413 (D) 415

65. Alfred buys an old scooter for Rs 4700 and spends Rs 800 on its repairs. If he sells the scooter for Rs 5800, his gain percent is
(A) 10% (B) 12%
(C) $4\frac{4}{7}\%$ (D) $5\frac{5}{11}\%$
66. There are 20 people in a party. If every person shakes hand with every other person, what is the total number of hand shakes ?
(A) 180 (B) 155
(C) 145 (D) 190
67. A mixture contains milk and water in the ratio 4 : 3. If 5 litres of water is added to the mixture, the ratio becomes 4 : 5. Find the quantity of milk in the given mixture.
(A) 15 litres (B) 10 litres
(C) 20 litres (D) 5 litres
68. The average weight of 8 persons increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What is the weight of the new person?
(A) 75kg (B) 80kg
(C) 85kg (D) 105kg
69. A wheel makes 1000 revolutions in covering a distance of 88km. The radius of the wheel is
(A) 44m (B) 40m
(C) 14m (D) 18m
70. Three candidates contested an election and received 1136, 7636 and 11628 votes respectively. What percentage of the total votes did the winning candidate get ?
(A) 57% (B) 60%
(C) 65% (D) 90%
71. Rs 390 is divided among 3 persons A, B and C such that 3 times A's share, 2 times B's share and 4 times C's share are all equal. The shares of A, B and C are respectively
(A) Rs 120, Rs 180, Rs 90 (B) Rs 120, Rs 100, Rs 170
(C) Rs 120, Rs 140, Rs 130 (D) Rs 120, Rs 130, Rs 140
72. What is the smallest number by which 5292 should be multiplied in order to make it a perfect square ?
(A) 2 (B) 3
(C) 5 (D) 7
73. A grocer purchased 80 kg of sugar at Rs 13.50 per kg and mixed it with 120 kg of sugar at Rs 16 per kg. At what rate should he sell the mixture to gain by 16% ?
(A) Rs 17.40 per kg (B) Rs 16.40 per kg
(C) Rs 15.40 per kg (D) Rs 12.93 per kg
74. A, B and C enter into a partnership with a capital in which A's contribution is Rs 10,000. If out of a total profit of Rs 1000, A gets Rs 500 and B gets Rs 300, then C's capital is
(A) Rs 7,000 (B) Rs 6,000
(C) Rs 5,000 (D) Rs 4,000

75. A copper sphere of diameter 18cm is drawn into a wire of diameter 4mm, then the length of the wire is
(A) 243m (B) 240m
(C) 235m (D) 250m
76. A man bought a horse and a carriage for Rs. 30,000. He sold the horse at a gain of 20% and the carriage at a loss of 10%, thereby gaining 2% on the whole. Find the cost of the horse.
(A) Rs.10,000 (B) Rs. 12,000
(C) Rs. 14,000 (D) Rs 16,000
77. On a 20% discount sale, an article costs Rs 596. What was the original price of the article ?
(A) Rs 720 (B) Rs 735
(C) Rs 745 (D) Rs 775
78. How many words can be formed by using all the letters of the word "MANGO" ?
(A) 5 (B) 10
(C) 25 (D) 120
79. The average of five numbers is 30. If one number is excluded, their mean becomes 28. The excluded number is
(A) 28 (B) 30
(C) 37 (D) 38
80. The difference between compound interest and simple interest on a certain sum of money at 10% per annum for 3 years is Rs 930. Find the principal if it is known that the interest is compounded annually.
(A) Rs 30,000 (B) Rs 35,000
(C) Rs 40,000 (D) Rs 45,000
81. Pointing to a photograph a man said, "I have no brother and sister but that man's father is my father's son". Whose photograph was it ?
(A) His own (B) His son
(C) His father (D) His nephew
82. How many 3's are there in the following sequence which are neither preceded by 6 nor immediately followed by 9 ?
9 3 6 6 3 9 5 9 3 7 8 9 1 6 3 9 6 3
(A) One (B) two
(C) three (D) none of these
83. In the given diagram, circle represents strong men; square represents tall men, triangle represents army officers. Which region represents army officers who are tall but not strong ?
(A) 4
(B) 3
(C) 1
(D) 2

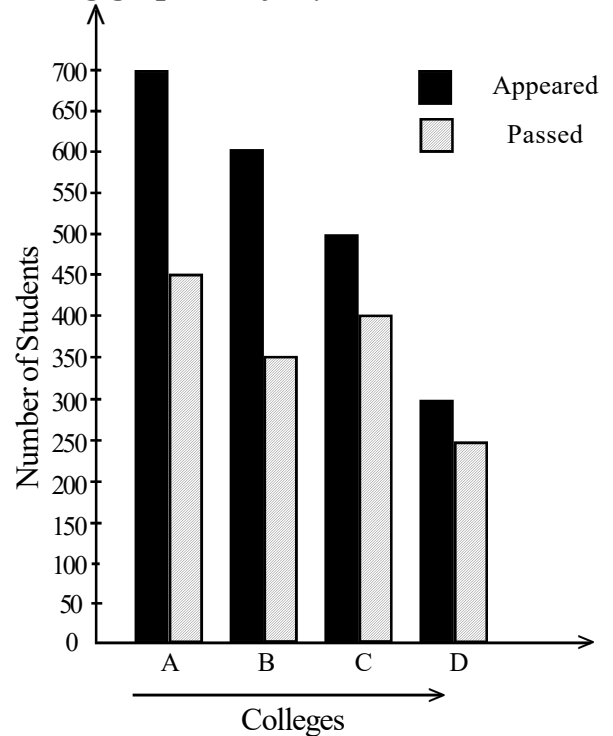


84. Given below are two statements; one is labelled as Assertion (A) and the other is labelled as Reason (R)
Assertion (A) - The purpose of higher education is to promote critical and creative thinking abilities among students.
Reason (R) - These abilities ensure job placements.
In the light of the above two statements, choose the correct option.
(A) A is false R is true
(B) Both A and R are true, but R does not provide sufficient reason for A
(C) Both A and R are true and R provides sufficient reason for A
(D) A is true, but R is false
85. If 2 is added to the last digit of each number and then the positions of the first and the third digits are interchanged, which of the following will be the highest number ?
(A) 895 (B) 576
(C) 396 (D) 783
86. 
Choose the correct one to complete the sequence.
(A)  (B) 
(C)  (D) 
87. In a certain code, LAKE is written as OZPV. How will BACK be in that same code?
(A) ZYXP (B) ZYPX
(C) YZXP (D) YZPX
88. P3C, R5F, T8I, V12L. What comes next ?
(A) Y17O (B) X16M
(C) X17O (D) X16O
89. In a certain code BEND is written as '5%3#' and NIGHT is written as '3@©64'. How is DEBT written in that code?
(A) #%©4 (B) #@54
(C) #%34 (D) #%54
90. In a certain code language, 743 means Mangoes are good; 657 means Eat good food; and 934 means Mangoes are ripe. Which digit means ripe in that language?
(A) 5 (B) 4
(C) 7 (D) 9
91. Identify the odd one out.
(A) Investor (B) Entrepreneur
(C) Landlord (D) Financier

92. Look carefully for the pattern, and then choose which pair of numbers comes next.
7 9 66 12 14 66 17
(A) 19 66 (B) 66 19
(C) 19 22 (D) 20 66

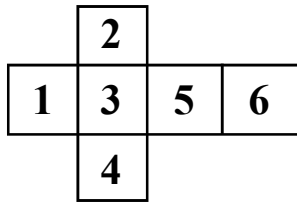
Directions (Questions 93-94): Study the following graph carefully and answer the question given below :

93. The difference between the number of students who passed from college C and college D is
(A) 250
(B) 150
(C) 400
(D) 350
94. The average number of students who appeared from all the colleges together is
(A) 573.5
(B) 553.7
(C) 357.5
(D) None of the above

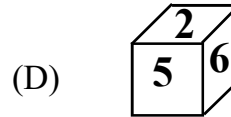
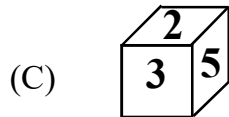
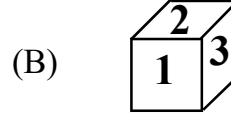
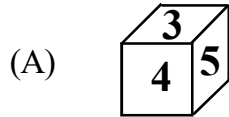


95. Ocean : Pond :: Deep : ?
(A) Clean (B) Shallow
(C) River (D) Canal
96. **Statements :**
Some pens are books
Some books are pencils
Conclusions:
1. Some pens are pencils.
2. Some pencils are pens.
3. All pencils are pens
4. All books are pens.
Which of the conclusions are correct ?
(A) Only 1 and 2 (B) Only 2 and 4
(C) All the four (D) None of the four
97. Pick out the odd one from the following :
(A) Banana (B) Grape
(C) Orange (D) Pomegranate
98. How many meaningful english words can be formed with the letters ARILT using each letter only once in that word ?
(A) None (B) One
(C) Two (D) Three

99.



Which cube cannot be made from the unfolded cube?



100. If a rat is called dog, dog is called mangoose, mangoose is called lion, lion is called snake and snake is called an elephant, which is reared as pet ?

(A) Rat

(B) Dog

(C) Mangoose

(D) Lion