

MIZORAM SUBORDINATE SERVICES SELECTION BOARD



COMMON RECRUITMENT EXAMINATION SEPTEMBER - 2023

Question Booklet Series

PAPER – II

A

Time Allowed : 3 Hours

Maximum Marks : 100

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. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose *ONLY ONE* response for each item.
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. ***Use of calculator is not permitted.***
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. A system software which aims to analyse, configure, optimise, maintain and take best use of a computer's resource is
(A) utility software (B) application software
(C) specific purpose software (D) none of these
2. Consider the following:
(i) Parity Check (ii) Cyclic Redundancy Check
(iii) Checksum (iv) Hamming Code
Which of the above are techniques used for transmission error detection and correction?
(A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
(C) (i), (iii) and (iv) (D) (i), (ii), (iii) and (iv)
3. PowerPoint is a program for
(A) image editing (B) presentation
(C) word processing (D) spreadsheet
4. Which of the following helps to change the settings and customise the functionality of your computer?
(A) Help and Support (B) Control Panel
(C) Default Programs (D) Documents
5. There is a long narrow box at the top of every window that displays the name of the document and program or folder name you are working on. Which of the following best describe the statement?
(A) Title Bar (B) Address Bar
(C) Menu Bar (D) Tool bar
6. In Microsoft Word, the option for changing the number of columns can be found under
(A) Home Menu (B) Insert Menu
(C) Page Layout Menu (D) View Menu
7. The top slide that stores information about the theme and slide layouts is
(A) slide master (B) slide show
(C) slide sorter (D) slide major
8. Which of the following is not true for secondary memory?
(A) Stores data in a permanent form
(B) Used by the user to store data
(C) Can be magnetic, electronic or optical
(D) Data stored in it is erased when the computer is shut down
9. The shortcut key to toggle between lowercase, uppercase and capitalize each word is
(A) Shift + F1 (B) Shift + F3
(C) Alt + U (D) Shift + U
10. The protocol used to transfer files between two computers on the internet is called
(A) File Sending Protocol (B) Internet Protocol
(C) File Transfer Protocol (D) All of these

11. SMTP is a protocol that is
 - (A) used to transfer message between end user and mail server
 - (B) used to deliver messages to user's word processor
 - (C) reliable and connection-oriented
 - (D) all of the above

12. Which internet connection has become obsolete?
 - (A) Broadband
 - (B) Dial-up
 - (C) Mobile
 - (D) Wi-Fi

13. Collection of physical elements that constitute a computer system is called
 - (A) software
 - (B) application
 - (C) desktop
 - (D) hardware

14. What feature of MS Office saves the document automatically after a certain interval of time?
 - (A) Save
 - (B) Save As
 - (C) Auto Save
 - (D) Automatic Saver

15. What is the full form of GUI?
 - (A) Geometric User Interaction
 - (B) Graphical User Interface
 - (C) Graphical Uniform Interaction
 - (D) Geometric Under Interaction

16. The computer network which generally expands throughout a city such as cable TV network are called
 - (A) Local Area Network
 - (B) Metropolitan Area Network
 - (C) Wide Area Network
 - (D) All of these

17. Which of the following is true about half duplex?
 1. Both the station can transmit as well as receive but not at the same time
 2. Example of half duplex is walkie-talkie
 3. When one device is sending, the other can only receive
 4. Communication is unidirectionalSelect the correct answer using the codes given below.
 - (A) 1 and 2
 - (B) 2 and 3
 - (C) 1, 2 and 3
 - (D) 1, 2, 3 and 4

18. The device that accomplishes the modulation-demodulation process is called
 - (A) Router
 - (B) Modem
 - (C) Switch
 - (D) All of these

19. Which of the following is volatile memory?
 - (A) CDROM
 - (B) Hard Disk
 - (C) Floppy Disk
 - (D) RAM

20. The speed of Central Processing Unit (CPU) is measured in
 - (A) Byte
 - (B) Core i3
 - (C) Hertz
 - (D) Second

21. High level Language is a language that
1. is easily understood by human
 2. needs a compiler to translate its language
 3. can be used for scientific calculation
 4. has only binary numbers in the program
- Select the correct answer using the codes given below.
- (A) 1, 2 and 3 (B) 2, 3 and 4
(C) 1, 3 and 4 (D) 1, 2, 3 and 4
22. The first generation computer was built in the year
- (A) 1945 (B) 1946
(C) 1947 (D) 1948
23. MIPS stands for
- (A) million instructions per second (B) million information per second
(C) mega instructions per second (D) mega information per second
24. A program that is used by Windows to keep your disk drives organised is called
- (A) Network and Sharing (B) Control Panel
(C) Windows Explorer (D) Recycle Bin
25. Default word processing application software in Microsoft Windows is
- (A) Notepad (B) MS Paint
(C) Microsoft Word (D) All of these
26. Which of the following is not a type of network?
- (A) LAN (B) MAN
(C) WAN (D) TAN
27. The first spreadsheet program was called
- (A) Excel (B) VisiCalc
(C) Open Office Calc (D) Gnumeric
28. Consider the following:
- (i) speed (ii) size of CPU (iii) storage size (iv) accuracy
- Which of the above characteristics are used to classify a computer?
- (A) (i), (ii) and (iii) (B) (ii), (iii) and (iv)
(C) (i) and (iv) (D) (i), (iii) and (iv)
29. The user name and the service provider in email address is separated by
- (A) # (B) %
(C) \$ (D) @
30. Which of the following is not correct about DVD?
- (A) DVD-R and DVD-RW are two formats of DVD
(B) It stands for Digital Versatile Drum
(C) A high quality video of 2 hours can be stored
(D) It supports audio tracks in various formats with video

31. When text flow is equally balanced between left and right margins, it is called
(A) Aligned (B) Justified
(C) Balanced (D) Automated
32. Under which tab can you find the theme of your presentation in a Microsoft PowerPoint 2010?
(A) Animation (B) Transition
(C) Design (D) Slide Show
33. What formula can be used to find the addition of two or more values?
(A) Add (B) If
(C) Average (D) Sum
34. The term ICT stands for
(A) Information and Communications Technology
(B) Internet and Communications Technology
(C) Information and Content Technology
(D) Instruction and Communications Technology
35. A device or software that is used to block unauthorised access to a computer, network or internet is
(A) Antivirus (B) Firewall
(C) Backup (D) All of these
36. URL stands for
(A) Uniform Resource Location (B) Universal Resource Location
(C) Uniform Resource Locator (D) Universal Resource Locator
37. Consider the following statements:
1. They can sometimes remain dormant and cannot be detected for a certain period of time
2. Some virus are difficult to detect because of changing nature of the virus
3. All computer virus are destructive
Which of the above statements about computer virus are true?
(A) 1 and 2 (B) 2 and 3
(C) 1 and 3 (D) 1, 2 and 3
38. Tally is a popular software for
(A) Inventory (B) HRM
(C) Accounting (D) Ticket reservation
39. Which of the following is not a valid Windows version?
(A) Windows XP (B) Windows Vista
(C) Windows 85 (D) Windows 7
40. Which of the following is not an operating system?
(A) LINUX (B) Microsoft Windows
(C) MSDOS (D) Google Chrome

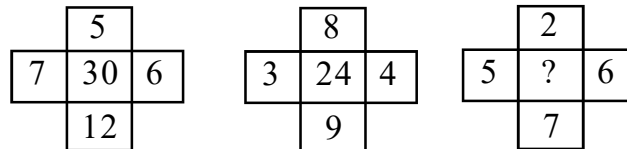
41. The first cell in a spreadsheet is
(A) 1A (B) AA
(C) AO (D) A1
42. Which of the following is not application software?
(A) Opera (B) MS DOS
(C) MySQL (D) Microsoft Office
43. Which of the following directs the data flow in CPU?
(A) Arithmetic Logic Unit (B) Control Unit
(C) Memory Unit (D) Visual Display Unit
44. Which of the following describes a network topology in which each host machine connects to exactly two other machines, creating a circular network structure?
(i) Bus topology (ii) Mesh topology (iii) Ring topology (iv) Star topology
Select the correct answer using the codes given below.
(A) (i) only (B) (ii) and (iii)
(C) (iii) only (D) (i) and (iv)
45. Which of the following is not a web browser?
(A) Chrome (B) Mozilla Firefox
(C) Google (D) Internet Explorer
46. The full form of USB is
(A) Universal Serial Bus (B) Uniform System Bus
(C) Universal System Bus (D) Uniform Serial Bus
47. OMR stands for
(A) Optic Mark Reader (B) Optic Map Reader
(C) Optical Mark Reader (D) Optical Map Reader
48. Which protocol is generally used for data transfer in the internet?
(A) OSI Model (B) TCP/IP
(C) IP (D) Optic Fibre
49. Which of the following statements about DNS is wrong?
(A) It stands for Domain Name System
(B) It is an alias name for IP address
(C) DNS is difficult to remember compared to IP address
(D) None of the above
50. An application which is used to view websites is called
(A) Browser (B) Web Viewer
(C) HTTP (D) Internet Protocol

51. Consider the following three statements:
I : Total profit earned was Rs 1,885
II : Cost price per article was Rs 596
III : Selling price per article was Rs 609
Which of the above statements are sufficient/necessary to find out how many articles were sold?
(A) II and III are sufficient
(B) I and II are sufficient
(C) All I, II and III together are necessary
(D) All the three statements are not sufficient

52. Find the odd one out.
(A) 792 (B) 253
(C) 652 (D) 473

53. The numbers in the following figures follow a certain arrangement. Find the missing number.

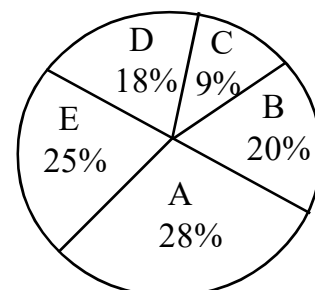
- (A) 18
(B) 20
(C) 28
(D) 32



54. Shyam can do a piece of work in 7 days. If Ram is 40% more efficient than Shyam, then Ram alone can complete the work in
(A) 5 days (B) 4 days
(C) 6 days (D) 3 days
55. What is the angular elevation of the sun when the shadow of a 20m pole is $20\sqrt{3}$ m?
(A) 30° (B) 45°
(C) 60° (D) 55°
56. With a speed of 18km/h, a mini train crosses a pole in 4 seconds. The length of the train is
(A) 25 m (B) 20 m
(C) 10 m (D) 15 m

Directions (Questions 57 and 58) : 8000 oranges are imported from different states A, B, C, D and E in the month of April. The given piechart shows the percentage of oranges imported from the different states. Study the piechart carefully and answer the questions that follow.

57. The central angle of the sector for the oranges imported from B is
(A) 60°
(B) 45°
(C) 30°
(D) 72°



58. The number of oranges from A exceed that of D by
(A) 800 (B) 880
(C) 900 (D) 600
59. A cube of side 6cm is painted black on two opposite sides, yellow on the other two opposite sides and red on the left over sides. It is then cut into a cube of side 2cm each. How many cubes have just one side painted?
(A) 8 (B) 6
(C) 4 (D) 10
60. Kima's birthday is on 8th March which is Wednesday. Then what day of the week will Liana's birthday be, if he was born on 31st March of the same year?
(A) Monday (B) Tuesday
(C) Thursday (D) Friday
61. If a, b and c are three consecutive numbers, then $\frac{b-a}{c-b}$ is equal to
(A) 0 (B) 1
(C) -1 (D) 2
62. The value of $\frac{1}{\sqrt{25^{-1}}} \times \frac{4\sqrt{16^{-1}}}{5\sqrt{4^{-1}}}$ is
(A) 1 (B) 0
(C) 2 (D) -2
63. A candidate in an examination has to secure 25% marks to pass. He gets 30 marks and failed by 20 marks. The maximum mark in the examination is
(A) 180 (B) 200
(C) 250 (D) 300
64. The difference of the place and face values of 3 in 93577 is
(A) 2297 (B) 2997
(C) 2295 (D) 2995
65. Which of the following values are equal?
(i) 99^0 (ii) 0^{99} (iii) 1^{99} (iv) 99^1
Select the correct answer using the codes given below.
(A) (i) and (ii) (B) (ii) and (iii)
(C) (i) and (iii) (D) (i) and (iv)
66. Consider the following statements:
A : Only good singers are invited for the concert
B : No one without sweet voice is a good singer
Conclusion:
I : All invited singers for the concert have sweet voice
II : Those singers who do not have sweet voice are not invited for the concert
(A) Only I follows (B) Only II follows
(C) Both I and II follows (D) Neither I nor II follows

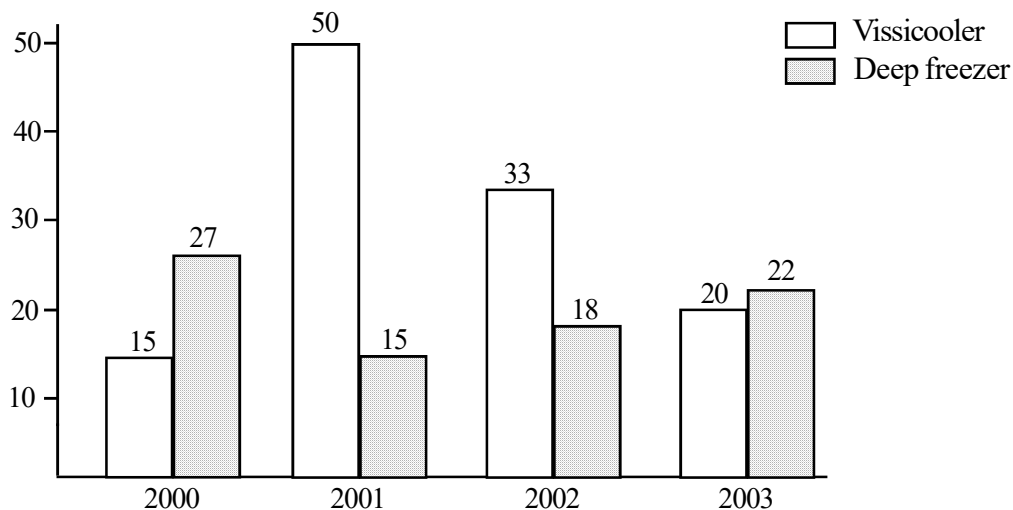
67. The next term of the arrangement $\frac{1}{6}, \frac{1}{3}, \frac{1}{2}$ is
(A) 4 (B) 1
(C) 0 (D) $\frac{2}{3}$
68. Identify the relationship between the given pair of words and select the pair that best illustrates a similar relationship from amongst the given alternatives.
Window : Pane ::
(A) Cotton : Bale (B) Book : Page
(C) School : Teacher (D) Pen : Ink
69. Pointing to a girl in a photograph a boy said, "Her sister's father is the only son of my grandfather". How is the boy related to the girl in the photograph?
(A) Son (B) Father
(C) Uncle (D) Brother
70. $\sqrt[3]{64}$ is equal to
(A) 8 (B) 4
(C) 1 (D) 2
71. A number which exceeds 20% of itself by 24 is
(A) 30 (B) 40
(C) 20 (D) 15
72. A book is sold for Rs 480 at a loss of 20%. The amount by which it should be sold to gain 10% is
(A) Rs 660 (B) Rs 500
(C) Rs 650 (D) Rs 600
73. The number of ways in which a team of 6 players can be formed from 8 men and 6 women so that the team consists of 3 men and 3 women is
(A) 1120 (B) 1000
(C) 1020 (D) 1200
74. Which among 2^{400} , 3^{300} , 4^{200} and 5^{100} is the least?
(A) 2^{400} (B) 3^{300}
(C) 4^{200} (D) 5^{100}
75. The least number that must be subtracted from 6000 to make it a perfect square is
(A) 80 (B) 71
(C) 70 (D) 77
76. Find the missing character (?) from amongst the given alternatives.

- (A) T
(B) W
(C) V
(D) X

A	F	M
C	I	Q
F	M	?

77. A is heavier than B and C is lighter than D. E is heavier than D but lighter than B. The heaviest among them is
(A) B (B) D
(C) A (D) E
78. If P stands for addition, Q stands for subtraction and R stands for multiplication, then $10P26Q6R6$ is equal to
(A) 1 (B) 0
(C) 3 (D) 2
79. A sum of money lent at simple interest amounts to Rs 12,000 in 3 years and to Rs 12,500 in 4 years. The sum of money is
(A) Rs 10,500 (B) Rs 10,000
(C) Rs 9,500 (D) Rs 10100
80. The correct expression for $1.\overline{45}$ in the fractional form is
(A) $\frac{16}{11}$ (B) $\frac{17}{11}$
(C) $\frac{155}{99}$ (D) $\frac{165}{99}$
81. The sum of three numbers is 210. If the ratio between 1st and 2nd is 2 : 3 and the ratio between 2nd and 3rd is 4 : 5, then the 2nd number is
(A) 58 (B) 64
(C) 72 (D) 86

Directions (Questions 82 and 83) : The given bar graph shows the annual percentage growth of sale of Visicooler and deep freezer over the years. Study the graph carefully and answer the questions that follow.



82. If the total number of Visicooler sold in 2002 was 14,000, the number of Visicooler sold in 2003 is
(A) 16800 (B) 16000
(C) 15500 (D) 16300

83. What was the average percentage growth in sale of deep freezer over the given years?
(A) 18% (B) 20.5%
(C) 16.4% (D) 30%
84. From a point, Ruata starts walking 4 km towards North-East direction, turns right and walks 5 km and again turns right. The direction he is now facing is
(A) North-East (B) South
(C) South-West (D) North
85. 55 men are standing in a row. Among them Sam is 39th from the left end of the row and Tim is 24th from the right end of the same row. The number of men standing in between Sam and Tim is
(A) 5 (B) 3
(C) 6 (D) 7
86. Three of the following four words are alike in a certain way and so form a group. Which is the one that does not belong to the group?
(A) RAIN (B) STORM
(C) WIND (D) BREEZE
87. The average age of 20 boys in a group is 12.5 years and that of girls is 12 years. If the whole group has an average age of 12.4 years, then the number of girls in the group is
(A) 10 (B) 15
(C) 5 (D) 8
88. Rocky borrowed Rs 7,500 and it amounted to Rs 10,800 in 2 years at compound interest. The rate of interest is
(A) 20% (B) 25%
(C) $24\frac{1}{2}\%$ (D) $25\frac{1}{2}\%$
89. 4 persons enter a cinema hall where there are 6 vacant seats. The number of ways in which they can seat themselves is
(A) 300 (B) 36
(C) 360 (D) 24

Directions (Questions 90 and 91) : The given table shows the production (in crore units) of five companies over the years. Study the table carefully and answer the questions that follow.

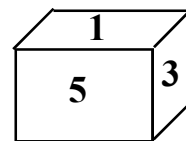
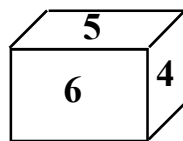
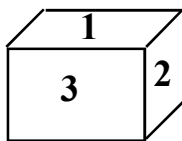
Company	Years						Total
	2015	2016	2017	2018	2019	2020	
ABC	93	132	120	103	107	120	675
PVC	80	75	94	83	90	92	514
BAS	282	250	300	360	320	340	1852
CVL	200	200	200	280	285	287	1452
ZEN	25	30	35	40	42	45	217

90. Which company has less average production in the last three years compared to that of first three years ?
(A) PVC (B) BAS
(C) CVL (D) None of these

91. For how many companies did the production increase every year from that of the previous year ?
(A) One (B) Two
(C) Three (D) Four
92. Identify the next number in the sequence : 6, 10, 16, 24, 34, ____
(A) 44 (B) 46
(C) 40 (D) 50
93. If $Y = 50$, $ABT = 46$, then CAT will be
(A) 39 (B) 44
(C) 48 (D) 41
94. If in a certain code PAINT is coded as 74128 and EXCEL is coded as 93596, what will be the code for ACCEPT?
(A) 455978 (B) 455987
(C) 495578 (D) 498787
95. A wall with dimension $10\text{m} \times 3.5\text{m} \times 0.6\text{m}$ is to be constructed using blocks of wood having $20\text{cm} \times 15\text{cm} \times 10\text{cm}$ as dimension. How many blocks will be required?
(A) 5000 (B) 6600
(C) 7500 (D) 7000
96. Find the smallest number which when divided by 8, 12 and 14 gives 7 as remainder in each case.
(A) 143 (B) 175
(C) 258 (D) 279
97. A started a business with Rs 3,200 and is joined afterwards by B with Rs 6,400. After how many months did B join if the profit at the end of the year are divided equally?
(A) 3 months (B) 6 months
(C) 8 months (D) 5 months
98. Six books A, B, C, D, E and F are placed side by side in a shelf. B, C, E have brown covers and the others have black covers. Only D and F are new and the rest are old. A, C and D are religious books and the rest are novels. The two books that are old novels with brown covers are
(A) A and C (B) D and F
(C) B and D (D) B and E

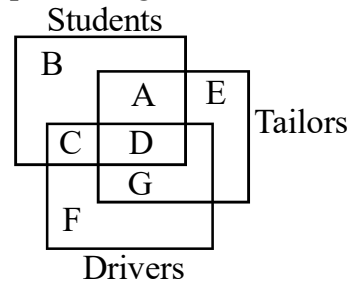
99. Three positions of the same dice are given. Which of the following number will be opposite to 2?

- (A) 3
(B) 6
(C) 5
(D) 4



100. Based on the given diagram find the letter representing drivers who are tailors but not students.

- (A) A
- (B) C
- (C) G
- (D) D



SPACE FOR ROUGH WORK

SPACE FOR ROUGH WORK