

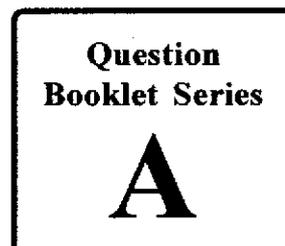
# MIZORAM PUBLIC SERVICE COMMISSION

## COMPETITIVE EXAMINATION FOR GROUP 'B' NON-GAZETTED COMBINED UDC EXAMINATION UNDER VARIOUS DEPARTMENTS, GOVERNMENT OF MIZORAM.

(MAY-2025)

### QUESTION BOOKLET

### PAPER-II



(Basic Computer Knowledge, Simple Arithmetic, General Intelligence & Reasoning)

Time Allowed : 3 hours

Maximum Marks : 200

### INSTRUCTIONS

1. Immediately after the commencement of the examination, you should check that this question booklet does not have any unprinted or torn or missing pages or items, etc. If so, get it replaced by a complete question booklet of the same series.
2. Write and encode clearly the question booklet series A, B, C or D as the case may be in the space provided in the OMR Answer Sheet.
3. **Particulars/Details to be filled up in the OMR Answer Sheet should be filled up completely and correctly, OMR Answer Sheet of candidates failing to do so will NOT be evaluated.**
4. This Question Booklet contains 100 questions carrying 2 marks each. Each item comprises of four alternative responses to choose for answer. Mark the response you want on the OMR Answer Sheet.
5. You have to mark all your responses only on the separate OMR Response Sheet provided. See directions in the OMR Answer Sheet.
6. After the examination has concluded, you should hand over the OMR Answer Sheet to the Invigilator only. You are permitted to take away with you the Question Booklet.
7. Separate sheets for rough work will be provided in the Examination Hall.
8. There are no negative marks for incorrect answer.

1. Which component of the computer executes instructions from computer programs?  
(a) RAM (b) CPU  
(c) GPU (d) Hard Drive
2. What is the role of the ALU in a microprocessor?  
(a) Storing data  
(b) Fetching instructions  
(c) Controlling I/O operations  
(d) Performing arithmetic and logic operations
3. What does an operating system primarily do?  
(a) To perform calculations  
(b) To manage computer hardware and software resources  
(c) To display graphics  
(d) To store data
4. What is the purpose of a switched-mode power supply (SMPS) in a computer?  
(a) To store data (b) To process data  
(c) To display images (d) To provide power to the computer
5. What is the role of application software?  
(a) To manage hardware (b) To perform specific tasks for users  
(c) To control system resources (d) To execute system commands
6. Multitasking in operating systems allows for  
(a) Multiple users to share a single device  
(b) Devices to run without an OS  
(c) A single user to perform multiple tasks at one time  
(d) Devices to perform calculation
7. In MS word, how do you apply bold formatting to a selected text?  
(a) Ctrl + B (b) Ctrl + C  
(c) Ctrl + P (d) Ctrl + X
8. The process of applying visual styles and layout elements to text and other elements within a document to enhance its appearance and readability in MS word.  
(a) Proofing (b) Editing  
(c) Formatting (d) Styling
9. In MS-Word, the shortcut key for splitting a Window or remove the split view.  
(a) Ctrl + Alt + V (b) Alt + Ctrl + S  
(c) Ctrl + Alt + O (d) Ctrl + Alt + N
10. In MS-Word, AutoCorrect is a feature that automatically correct \_\_\_\_\_ as you type.  
(a) Incorrect sentence (b) Short, Repetitive  
(c) Spelling mistake (d) Sentences
11. \_\_\_\_\_ is used to convert from upper case to lower case and vice versa.  
(a) Toggle Case (b) Sentence Case  
(c) Lower Case (d) Upper Case
12. Which feature allows you to combine two or more table cells located in the same row or column into a single cell?  
(a) AutoFit (b) Merge Cells  
(c) Table Style (d) Split Cells

*Series-A*

13. A series of commands and instructions that you group together as a single command to accomplish a task automatically in MS word.
  - (a) AutoCorrect
  - (b) Thesaurus
  - (c) Macro
  - (d) Grammar Check
14. What is the default file extension used by Excel 2016 and later versions?
  - (a) .xls
  - (b) .xlsx
  - (c) .xlsm
  - (d) .xlsb
15. What does the 'Freeze Panes' feature do in Excel?
  - (a) Securing data
  - (b) Hiding data
  - (c) Locking rows/columns
  - (d) Splitting window
16. Which feature allows you to compare two Excel sheets side by side?
  - (a) Split
  - (b) New Window
  - (c) Arrange All
  - (d) View Side by Side
17. Which function can be used to conditionally sum values in a range based on a criterion?
  - (a) SUMIF()
  - (b) SUM()
  - (c) IFSUM()
  - (d) TOTALIF()
18. What is the purpose of using the \$ symbol in an Excel formula?
  - (a) To convert currency
  - (b) To highlight the cell
  - (c) To indicate absolute reference
  - (d) To mark important formula
19. What is the primary function of a PivotTable in Excel?
  - (a) To summarize data
  - (b) To create complex formulas
  - (c) To enhance graphics
  - (d) To connect to external databases
20. A template that controls the overall appearance and formatting of all slides in a presentation
  - (a) Title
  - (b) Slide master
  - (c) Header
  - (d) Footer
21. The Tab which allows you to control the look and the appearance of your presentation.
  - (a) Transition tab
  - (b) Insert tab
  - (c) Design tab
  - (d) Animation tab
22. What is the shortcut to duplicate a slide in PowerPoint?
  - (a) Ctrl + C
  - (b) Ctrl + X
  - (c) Ctrl + V
  - (d) Ctrl + D
23. How many transitions can be applied to one slide?
  - (a) One
  - (b) Two
  - (c) Three
  - (d) Four
24. Which network topology does the Internet most closely resemble?
  - (a) Ring
  - (b) Mesh
  - (c) Bus
  - (d) Star
25. What type of cable is used for most modern Ethernet networks?
  - (a) Coaxial cable
  - (b) Fiber optic cable
  - (c) Twisted pair cable
  - (d) Shielded cable
26. In HTTP, what status code indicates that the server cannot find the requested resource?
  - (a) 200 OK
  - (b) 404 Not Found
  - (c) 301 Moved Permanently
  - (d) 500 Internal Server Error

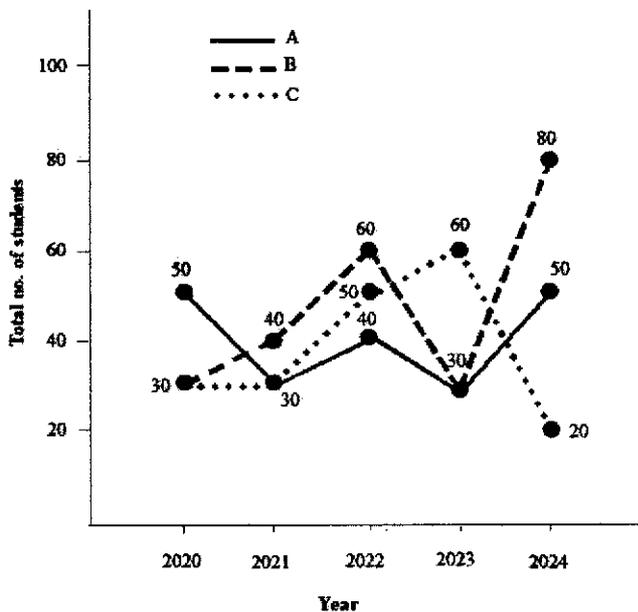
27. What is the significance of a URL in web technology?  
(a) Identifies a browser  
(b) Links a website to a hosting server  
(c) Specifies the address of a resource on the web  
(d) Provides server configuration
28. What is the primary purpose of a digital signature in cryptography?  
(a) Ensuring data confidentiality  
(b) Verifying the integrity and authenticity of data  
(c) Encrypting messages  
(d) Compressing data
29. What is the main function of the HTTPS protocol?  
(a) To increase website speed  
(b) To compress web pages  
(c) To improve SEO  
(d) To secure data transfer between a user and a website
30. Which of the following is the most secure method for securing wireless networks?  
(a) WEP (b) WPA  
(c) WPA2 (d) WIFI
31. Android applications are packaged in what file format?  
(a) APK (b) EXE  
(c) ZIP (d) JAR
32. What is the primary advantage of using cloud computing?  
(a) Improved hardware performance (b) Increased data security  
(c) Scalability and cost efficiency (d) Enhanced user interface
33. What is the primary purpose of web browser?  
(a) To manage files (b) To create graphics  
(c) To design websites (d) To access and navigate websites
34. Which of the following exemplifies responsible digital citizenship?  
(a) Sharing false information (b) Respecting others' privacy online  
(c) Cyberbullying (d) Piracy
35. Which of the following is a valid email?  
(a) @example.com (b) john@.com  
(c) john@example.com (d) john doe@example.com
36. The value of  $\sqrt[5]{25^{-2} \times \frac{1}{5}}$  is  
(a)  $\frac{1}{25}$  (b)  $\frac{1}{5}$   
(c) 25 (d) 5
37. What is the remainder obtained when any prime number greater than 6 is divided by 6?  
(a) 1 or 2 (b) 1 or 3  
(c) 1 or 5 (d) 3 or 5

38. What is the square root of  $(8 + 2\sqrt{15})$  ?
- (a)  $\sqrt{5} + \sqrt{3}$  (b)  $2\sqrt{2} + 2\sqrt{6}$   
(c)  $2\sqrt{5} + 2\sqrt{3}$  (d)  $\sqrt{2} + \sqrt{6}$
39. If  $2^3 \times 3^4 \times 1080 \div 15 = 6^x$ , then the value of  $x$  is :
- (a) 2 (b) 4  
(c) 6 (d) 8
40. One-fourth of the sum of prime numbers, greater than 4 but less than 16, is the square of:
- (a) 6 (b) 5  
(c) 4 (d) 3
41. The square root of  $(7 + 3\sqrt{5})(7 - 3\sqrt{5})$  is
- (a)  $\sqrt{5}$  (b)  $3\sqrt{5}$   
(c) 7 (d) 2
42. The average price of a Fridge, a TV, and a Laptop is ₹ 20000. If their prices are in the ratio 3 : 5 : 7, the price of the cheapest item is:
- (a) ₹ 10000 (b) ₹ 12000  
(c) ₹ 15000 (d) ₹ 20000
43. The average weight of 4 girls is increased by 2 kg when one of the girl, whose weight 50 kg is replaced by a new girl. The weight of the new girl is
- (a) 58 kg (b) 60 kg  
(c) 45 kg (d) 53 kg
44. 10 books each of ₹ 300 are sold at ₹ 2500. What is the percentage of the discount given?
- (a)  $11\frac{1}{5}\%$  (b)  $17\frac{9}{10}\%$   
(c)  $16\frac{2}{3}\%$  (d)  $16\frac{17}{20}\%$
45. Successive discounts of 20% and 10% are equivalent to a single discount of:
- (a) 28% (b) 15%  
(c) 30% (d) 25%
46. By how much is 60% of 90 greater than  $\frac{4}{5}$  of 20?
- (a) 12 (b) 23  
(c) 30 (d) 38
47. What percent of  $\frac{2}{7}$  is  $\frac{1}{35}$  ?
- (a) 40% (b) 30%  
(c) 20% (d) 10%
48. The ratio of cost price and selling price is 20 : 23. The profit percent is:
- (a) 10% (b) 15%  
(c) 20 % (d) 25%

49. A person purchases several articles at the rate of 15 for ₹ 20 and sells them at the rate of 10 for ₹ 15. What is his gain / loss percentage?
- (a) 12.5% (b) 10 %  
(c) 12% (d) 20.5 %
50. The ratio of a boys's and a girl's present age is 9 : 10. After 4 years, the ratio of their ages become 11 : 12. What is the girl's present age?
- (a) 18 years (b) 19 years  
(c) 20 years (d) 21 years
51. The first, second and fourth terms of a proportion are 96, 8 and 12 respectively. Then the third term is:
- (a) 64 (b) 144  
(c) 100 (d) 82
52. A can do a job in 15 days. In how many days can A and B together complete the job if B is twice as fast as A?
- (a) 3 days (b) 8 days  
(c) 10 days (d) 5 days
53. A alone can do a piece of work in 6 days and B alone in 8 days. With the help of C, they completed the work in 3 days. Then C alone can complete the same work in-
- (a) 12 days (b) 18 days  
(c) 24 days (d) 32 days
54. A and B travel the same distance at a speed of 15 km / hr and 20 km / hr respectively. If A takes 40 minutes more than B, the distance travelled by each is :
- (a) 40 km (b) 36 km  
(c) 30 km (d) 45 km
55. A man travelled a distance of 61 km in 9 hours. He travelled partly on foot at 4 km/hr and partly on bicycle at 9 km/hr. The distance travelled on bicycle is :
- (a) 40 km (b) 36 km  
(c) 30 km (d) 45 km
56. How much time will it take for an amount of ₹ 600 to yield ₹ 108 as interest at 9 % per annum of simple interest?
- (a) 4 years (b) 3 years  
(c) 2 years (d) 1 year
57. A sum of money on compound interest amounts to ₹ 29040 in 3 years and ₹ 19360 in 2 years. The rate of interest per annum is :
- (a) 50 % (b) 10 %  
(c) 20 % (d) 5 %
58. The base area of a room is  $16\text{m}^2$  and height is 3m. Then, the volume of the room is:
- (a)  $16\text{m}^3$  (b)  $48\text{m}^3$   
(c)  $54\text{m}^3$  (d)  $66\text{m}^3$
59. A solid brass sphere of radius 2.1 dm is converted into a right circular cylinder rod of length 7 cm. The ratio of the total surface areas of the rod to the sphere is :
- (a) 1 : 3 (b) 3 : 1  
(c) 3 : 7 (d) 7 : 3

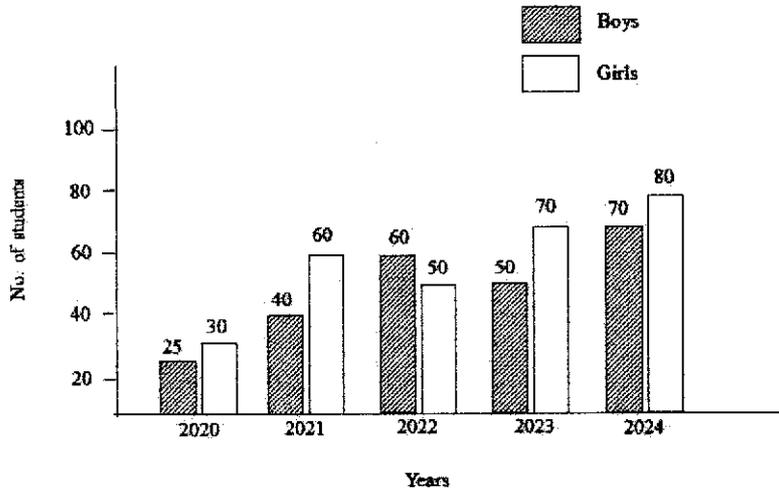
Series-A

60. A cone has a curved surface area of  $5544\text{cm}^2$  and a diameter  $168\text{cm}$ . What is its total surface area?  
(a)  $27720\text{cm}^2$  (b)  $25530\text{cm}^2$   
(c)  $27270\text{cm}^2$  (d)  $22770\text{cm}^2$
61. When the sun's altitude changes from  $30^\circ$  to  $60^\circ$ , the length of the shadow of a tower decreases by  $30\text{m}$ . What is the height of the tower?  
(a)  $15\sqrt{5}\text{m}$  (b)  $3\sqrt{5}\text{m}$   
(c)  $15\sqrt{3}\text{m}$  (d)  $5\sqrt{3}\text{m}$
62. From the top of a  $195\text{m}$  high cliff, the angle of depression of the top and bottom are  $30^\circ$  and  $60^\circ$  respectively. Then, the height of the tower is:  
(a)  $130\text{m}$  (b)  $90\text{m}$   
(c)  $120\text{m}$  (d)  $100\text{m}$
63. The line graph shows the total number of students in three different schools (A, B & C) during the years 2020 to 2024.



- Among the following pairs of years, find out which year the total number of students in all the three schools was equal :
- (a) 2020 and 2022 (b) 2021 and 2022  
(c) 2022 and 2024 (d) 2023 and 2024

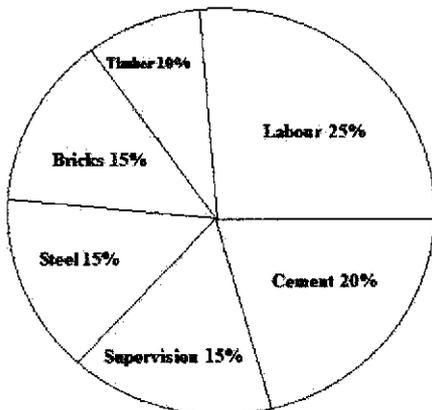
64. The bar graph shows that the number of boys and girls in a class during the year 2020 - 2024



The ratio of the average number of girls to the average number of boys during the year 2021 - 2024 is

- (a) 11 : 13
- (b) 13 : 11
- (c) 11 : 15
- (d) 15 : 11

65. The following pie-chart shows the percentages distribution of the expenditure incurred in constructing a building :



What is the central angle of the sector corresponding to the expenditure incurred on cement?

- (a) 60°
- (b) 62°
- (c) 70°
- (d) 72°

**Direction (Question Nos. 66 & 67) :** In each of the following Questions, there is a certain relationship between two given words on one side of :: and one word is given on another

66. Aeroplane : Cockpit :: Train : ?

- (a) Wagon
- (b) Coach
- (c) Compartment
- (d) Engine

67. Meningitis : Brain :: Cirrhosis : ?

- (a) Lungs
- (b) Brain
- (c) Liver
- (d) Heart

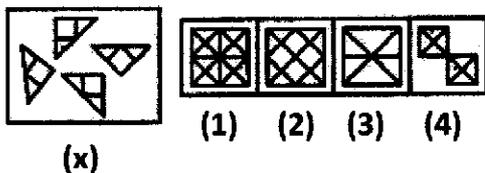
68. Today is Monday. After 61 days, it will be :

- (a) Tuesday
- (b) Monday
- (c) Sunday
- (d) Saturday

Series-A

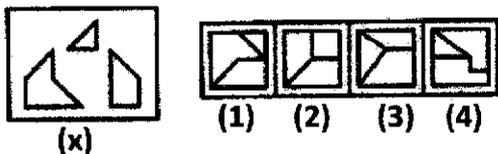
69. What was the day on 26<sup>th</sup> January 1950 ?  
 (a) Friday (b) Saturday  
 (c) Sunday (d) Thursday
70. In an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was :  
 (a) 2500 (b) 2700  
 (c) 2900 (d) 3100
71. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is :  
 (a) 500 (b) 1000  
 (c) 1500 (d) 2000
72. A bag contains 50 P, 25 P and 10 P coins in the ratio 5 : 9 : 4, amounting to Rs. 206. Find the number of coins of each type respectively.  
 (a) 360, 160, 200 (b) 160, 360, 200  
 (c) 200, 360, 160 (d) 200, 160, 300
73. Salaries of Remi and Sawmi are in the ratio 2:3. If the salary of each is increased by ₹4000, the new ratio becomes 40:57. What is Sawmi's salary?  
 (a) ₹38000 (b) ₹46800  
 (c) ₹36700 (d) ₹50000
74. Insert the missing number.  
 7, 26, 63, 124, 215, 342, (...)  
 (a) 391 (b) 421  
 (c) 481 (d) 511
75. Find out the wrong number in the given sequence of numbers.  
 6, 13, 18, 25, 30, 37, 40  
 (a) 25 (b) 30  
 (c) 37 (d) 40

76. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



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

77. Find out which of the figures (1), (2), (3) and (4) can be formed from the pieces given in figure (X).



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

78.  $45\%$  of 750 -  $25\%$  of 480 = ?  
(a) 337.50 (b) 217.50  
(c) 376.21 (d) 120
79. A man spends  $35\%$  of his income on food,  $25\%$  on children's education and  $80\%$  of the remaining on house rent. What percent of his income he is left with ?  
(a) 6 % (b) 8 %  
(c) 10 % (d) 12 %
80. If each side of a square is increased by  $25\%$ , find the percentage change in its area?  
(a) 65.25%, (b) 56.25%,  
(c) 65%, (d) 56%,
81. The percentage increase in the area of a rectangle, if each of its sides is increased by  $20\%$   
(a) 22% (b) 33%  
(c) 44% (d) 55%
82. Statements followed by some conclusions are given below  
Statements :  
1. X is 7 meters tall, Y is half as high and Z is 3 times the height of X.  
2. P is taller than Z but shorter than A and B.  
Conclusions :  
I. B is the tallest of all.  
II. The average height of X, Y and Z is less than 10 meters.  
Find which of the given conclusions logically follows from the given statements.  
(a) Only conclusion I follows (b) Only conclusion II follows  
(c) Both I and II follow (d) Neither I nor II follows
83. The likes and professions of five friends Rosy, Mary, Lily, Andy and Daisy are given. Consider the following information and answer questions based on it.  
1. Rosy likes yellow and is a student.  
2. The Librarian likes Green.  
3. Mary and Andy like Purple and Blue respectively and neither of them is a Teacher.  
4. Lily likes Brown and the Inspector likes Blue.  
5. One of the five is a Principal.  
Which among the following is the wrong pair?  
(a) Andy - Inspector (b) Purple - Principal  
(c) Daisy - Green (d) Rosy - Teacher
84. Mr. A, Miss B, Mr. C and Miss D are sitting around a table and discussing their trades.  
I. Mr. A sits opposite to cook  
II. Miss B sits right to the barber.  
III. The washer man is on the left of the tailor  
IV. Miss D sits opposite Mr. C  
What are the trades of A and B ?  
(a) Tailor and Barber (b) Tailor and Cook  
(c) Barber and Cook (d) Washer man and Cook
85. Sally has never received a violation from the Federal Aviation Administration during her 16-year flying career. Sally must be a great pilot.  
Which of the following can be said about the reasoning above?  
(a) The definitions of the terms create ambiguity.  
(b) The argument uses circular reasoning.  
(c) The argument works by analogy.  
(d) The argument is built upon hidden assumptions.

Series-A

86. I. Tanya is older than Eric.  
II. Cliff is older than Tanya.  
III. Eric is older than Cliff.

If the first two statements are true, the third statement is-

- (a) true (b) false  
(c) uncertain (d) none

87. M and N have children A and B.

F is spouse of B.

D is child of F.

P is son in law of N.

K is kid of P.

Who is male child of M and N ?

- (a) B (b) A  
(c) None (d) Can't be determined

88. A B C D E F G H I J K L M N O P Q R S T U V W X Y Z .

Which letter in this alphabet is the eighth letter to the right of the letter and which is tenth letter to the left of the last but one letter of the alphabet?

- (a) X (b) W  
(c) I (d) H

89. S L U A Y J V E I O N Q G Z B D R H

What will come in place of question (?) mark in the following series :

LA UJ YI EG ?

- (a) ZH (b) IB  
(c) NR (d) QH

90. In a certain code language,

'134' means 'good and tasty';

'478' means 'see good pictures' and

'729' means 'pictures are faint':

Which of the following digits stands for 'see'?

- (a) 9 (b) 2  
(c) 1 (d) 8

91. In a certain code language,

(A) 'pit na som' means 'bring me water'

(B) 'na jo tod' means 'water is life'

(C) 'tub od pit' means 'give me toy'

(D) 'jo lin kot' means 'life and death'

Which of the following represents 'is' in that language ?

- (a) jo (b) na  
(c) tod (d) lin

92. In a certain code, TABLE is written as GZYOV, then CHAIR can be written as

- (a) XRZSI (b) XZSRI  
(c) XSRZI (d) XSZRI

93. In a certain code language, '3a, 2b, 7c' means 'Truth is Eternal';  
'7c, 9a, 8b, 3a' means 'Enmity is not Eternal' and  
'9a, 4d, 2b, 8b' means 'Truth does not perish'.

Which of the following means 'enmity' in that language?

- (a) 3a (b) 7c  
(c) 8b (d) 9a
94. How many times in a day, are the hands of a clock in straight line but opposite in direction?  
(a) 20 (b) 22  
(c) 24 (d) 48
95. A clock is started at noon. By 10 minutes past 5, the hour hand has turned through:  
(a) 145 (b) 150  
(c) 155 (d) 160

96. If  $1\ 1\ 1\ 1 = R$

$$2\ 2\ 2\ 2 = T$$

$$3\ 3\ 3\ 3 = E$$

$$4\ 4\ 4\ 4 = N$$

Then  $5\ 5\ 5\ 5 = ?$

- (a) Y (b) Z  
(c) T (d) X
97. One rabbit saw 6 elephants while going towards River. Every elephant saw 2 monkeys are going towards river. Every monkey holds one tortoise in their hands.  
How many animals are going towards the river?  
(a) 14 (b) 11  
(c) 8 (d) 5

98. A man was murdered in his office.

The suspects are Ericson, Maggi, Joel, Benny, Sona, Patick.

A calendar found near the man has blood written 6, 4, 9, 10, 11.

Who is the killer?

- (a) Maggi (b) Ericson  
(c) Sona (d) Joel
99. A, B and C can do a piece of work in 24 days, 30 days and 40 days respectively. They began the work together but C left 4 days before the completion of the work. In how many days was the work completed?  
(a) 11 days (b) 12 days  
(c) 13 days (d) 14 days
100. P can complete a work in 12 days working 8 hours a day. Q can complete the same work in 8 days working 10 hours a day. If both p and Q work together, working 8 hours a day, in how many days can they complete the work?  
(a) 60/11 (b) 61/11  
(c) 71/11 (d) 72/11