

GOVERNMENT OF MIZORAM
HIGHER & TECHNICAL EDUCATION
DEPARTMENT

COMPETITIVE EXAMINATION FOR RECRUITMENT TO
THE POST OF DESPATCH RIDER UNDER MIZORAM
ENGINEERING COLLEGE UNDER (MEC)
(JULY-2026)

PAPER-II
(SIMPLE ARITHMETIC, GENERAL INTELLIGENCE &
REASONING)

Full Marks : 200
Time Allowed : 3 Hours

Signature of Invigilator _____

CODE :

(For official use)

SUBJECT	MARK CARRIED BY EACH QUESTION / TOPIC	NO. OF CORRECT ANSWERS	MARKS OBTAINED
Simple Arithmetic	2		
General Intelligence & Reasoning	2		
TOTAL			

Signature of Examiner : _____

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

Put a tick (✓) mark against the correct answer in the space given in each question.

If a candidate gives more than one answer to one question, it will be treated as wrong answer even if one of the given answers happens to be correct.

SIMPLE ARITHMETIC - 100 MARKS

1. The Area of square is 144cm^2 . Then the side of the square is:
(a) 13cm ()
(b) 12cm ()
(c) 14cm ()
(d) 11cm ()
2. In a right triangle the length of the hypotenuse and a side are respectively 10cm and 6cm. Then the length of the third side is:
(a) 8cm ()
(b) 9cm ()
(c) 7cm ()
(d) 12cm ()
3. The smallest square number which is divisible by each of the number 6, 9 and 15 is:
(a) 100 ()
(b) 400 ()
(c) 900 ()
(d) 600 ()
4. Find the smallest number by which 252 must be multiplied to make it a perfect square.
(a) 4 ()
(b) 5 ()
(c) 6 ()
(d) 7 ()
5. An Item marked at ₹ 1500 is sold for ₹ 1200, the discount percent is:
(a) 10% ()
(b) 15% ()
(c) 20% ()
(d) 25% ()
6. A piece of wood 50 cm in length was cut into pieces, the ratio of whose lengths was 2:3. The length of longer piece is:
(a) 10cm ()
(b) 15cm ()
(c) 20 cm ()
(d) 30cm ()

7. Which number when added to each of the numbers 24, 32 and 42 would make the sums to be in continued proportion?
- (a) 4 ()
(b) 5 ()
(c) 6 ()
(d) 8 ()
8. A picnic is being planned in a school for Class VIII. Boys are 40% of the total number of students and are 12 in numbers. What is the ratio of the number of girls to the number of boys in the Class?
- (a) 2 : 3 ()
(b) 3 : 2 ()
(c) 3 : 4 ()
(d) 4 : 3 ()
9. Two numbers are in the ratio 3 : 7. If their sum is 710, find the numbers.
- (a) 213 and 497 ()
(b) 215 and 379 ()
(c) 231 and 497 ()
(d) 213 and 479 ()
10. If 308 is divided in the ratio 2 : 5 : 4 in to three parts, then the minimum part is:
- (a) 125 ()
(b) 74 ()
(c) 56 ()
(d) 115 ()
11. If there are 2170 candidates who appeared for an examination and the ratio of boys to girls in the examination is 37 : 25, how many boys appeared in the exam?
- (a) 1295 ()
(b) 1259 ()
(c) 1258 ()
(d) 1300 ()
12. A sum amounts to ₹ 2400 at 15% simple interest per annum after 4 years. Find the sum.
- (a) 1400 ()
(b) 1500 ()
(c) 1450 ()
(d) 1600 ()
13. What amount will be received on the sum of ₹ 62500 for $1\frac{1}{2}$ years at 8% per annum compounded half yearly?
- (a) ₹ 70306 ()
(b) ₹ 70305 ()
(c) ₹ 70403 ()
(d) ₹ 70304 ()

14. The difference between compound interest and simple interest for 2 years at 10% per annum is ₹ 50. Find the sum.
- (a) ₹ 4000 ()
(b) ₹ 5000 ()
(c) ₹ 6000 ()
(d) ₹ 7000 ()
15. At what rate of compound interest will ₹ 20,000 become ₹ 24,200 after 2 years?
- (a) 10% per annum ()
(b) 12% per annum ()
(c) 15 per annum ()
(d) 8% per annum ()
16. The average of 5 numbers are 15. If the four numbers are 13, 17, 15, and 16, what will be the fifth number?
- (a) 12 ()
(b) 11 ()
(c) 14 ()
(d) 18 ()
17. The average of 7 numbers is 40. If one new numbers is added, the average becomes 45. What is the new number?
- (a) 30 ()
(b) 40 ()
(c) 80 ()
(d) 60 ()
18. The average of seven observations is 35. If one observation 28 is replaced by 35, what will be the new average?
- (a) 28 ()
(b) 36 ()
(c) 42 ()
(d) 56 ()
19. The average of numbers 87, 84, 86, 90, 82, 88, x . is 85. What is the value of x .
- (a) 81 ()
(b) 83 ()
(c) 92 ()
(d) 78 ()
20. A student scores 260 marks out of a total of 500 marks in an examination. What percentage of marks does the student obtain?
- (a) 50% ()
(b) 52% ()
(c) 56% ()
(d) 58% ()

21. The population of a town decreased from 1800 to 1260 in one year. What is the percentage decreased in population.
- (a) 20% ()
(b) 25% ()
(c) 30% ()
(d) 35% ()
22. In a class of 50 students, 40 % are girls. Find the number of boys in the class?
- (a) 20 ()
(b) 35 ()
(c) 25 ()
(d) 30 ()
23. If 5% tax is included in the price, what is the original price of Tablet bought for ₹ 36,750.
- (a) ₹ 34,000 ()
(b) ₹ 35,000 ()
(c) ₹ 36,000 ()
(d) ₹ 34,500 ()
24. A person spends 30% of his income on food, 20% on house rent and saves ₹ 22,500, What is his total monthly income?
- (a) ₹ 50,000 ()
(b) ₹ 55,000 ()
(c) ₹ 45,000 ()
(d) ₹ 40,000 ()
25. The cost price of a table is ₹ 800. If the profit % is 25%, find the selling price.
- (a) ₹ 900 ()
(b) ₹ 950 ()
(c) ₹ 1,000 ()
(d) ₹ 1,100 ()
26. A man buys a bicycle for ₹ 3,200 and spends ₹ 300 on repairs. He sells the bicycle for ₹ 3,920. Find his profit %.
- (a) 10% ()
(b) 12% ()
(c) 15% ()
(d) 18% ()
27. A and B started a business by investing ₹ 880 and ₹ 320 respectively. If B's share in the profit earned by them is ₹ 560, what is the total profit earned (in ₹) by them together?
- (a) 1980 ()
(b) 2000 ()
(c) 2100 ()
(d) 2250 ()

28. A and B can do a piece of work in 10days, B and C in 15days, C and A in 30days. In how many days can they do it all working together?
- (a) 10 days ()
(b) 11 days ()
(c) 15 days ()
(d) 17 days ()
29. A and B together can do a piece of work in 4 days. A alone can do it in 6 days. In how many days can B alone finish the same work?
- (a) 8 days ()
(b) 10 days ()
(c) 12 days ()
(d) 13 days ()
30. Liana covers 10.5 km in 3 hours, find the distance covered by him in 8 hours.
- (a) 18 km ()
(b) 20 km ()
(c) 22 km ()
(d) 28 km ()
31. A cyclist cover the first half of a 60 km race at a speed of 10km/hr. and the second half at a speed of 15 km/hr. What is the average speed of the Cyclist for the entire race?
- (a) 12 km/h ()
(b) 16 km/h ()
(c) 10 km/h ()
(d) 18 km/h ()
32. A gun is fired at a distance of 3.32km from Peyton. She hears the sound after 10 seconds later. The speed of the sound is:
- (a) 303 m/s ()
(b) 332 m/s ()
(c) 335 m/s ()
(d) 332 km/s ()
33. Find the area of trapezium whose parallel sides are 7cm and 9cm and the distance between these parallel sides is 3cm.
- (a) 20 cm^2 ()
(b) 22 cm^2 ()
(c) 23 cm^2 ()
(d) 24 cm^2 ()
34. Find the area of Rhombus whose diagonals are 10cm and 8.2cm.
- (a) 3 cm^2 ()
(b) 41 cm^2 ()
(c) 43 cm^2 ()
(d) 45 cm^2 ()

35. The area of trapezium is 34 cm^2 and the length of one of the parallel sides is 10 cm and its height is 4 cm . Find the length of other parallel side.
- (a) 6 cm ()
(b) 8 cm ()
(c) 9 cm ()
(d) 7 cm ()
36. A rectangular piece of paper $11 \text{ cm} \times 4 \text{ cm}$ is folded without overlapping to make a cylinder of height 4 cm . Find the volume of the Cylinder.
- (a) 34.6 cm^3 ()
(b) 38.5 cm^3 ()
(c) 36.5 cm^3 ()
(d) 35.8 cm^3 ()
37. Find the height of Cylinder whose radius is 7 cm and the total surface area is 968 cm^2 .
- (a) 15 cm ()
(b) 13 cm ()
(c) 16 cm ()
(d) 14 cm ()
38. A godown is in the form of a cuboid of measures $60 \text{ cm} \times 40 \text{ cm} \times 30 \text{ cm}$. How many cuboidal boxes can be stored in it if the volume of one box is 0.8 cm^3 ?
- (a) $95,000$ ()
(b) $90,000$ ()
(c) $85,000$ ()
(d) $100,000$ ()
39. The radius of a wheel is 14 cm . How many rotations will the wheel make to cover a distance of 880 m ?
- (a) 800 ()
(b) 900 ()
(c) 1000 ()
(d) 1200 ()
40. A ladder is placed against a wall such that its foot is at a distance of 6 m from the wall and the top reaches a window 8 m above the ground. Find the length of the ladder.
- (a) 12 m ()
(b) 14 m ()
(c) 13 m ()
(d) 10 m ()
41. A 30 m long rope is tightly stretched and tied from the top of a vertical pole to the ground. If the angle made by the rope with the ground level is 30° . Find the height of the pole.
- (a) 10 m ()
(b) 15 m ()
(c) 20 m ()
(d) 22 m ()

42. A kite is flying at a height of 75 m above the ground. The string attached to the kite is temporarily tied to a point on the ground. The inclination of the string with the ground is 60° . Find the length of the string, assuming that there is no slack in the string.
- (a) $50\sqrt{3}$ m ()
- (b) $40\sqrt{3}$ m ()
- (c) $55\sqrt{3}$ m ()
- (d) $47\sqrt{3}$ m ()
43. From the top of a tower 40 m high, the angle of depression to a car on the road is 45° . What is the horizontal distance of the car from the tower?
- (a) 30 m ()
- (b) 40 m ()
- (c) 45 m ()
- (d) 35 m ()
44. What is the value of $12\frac{1}{2} + 12\frac{1}{3} + 12\frac{1}{6}$?
- (a) 36 ()
- (b) 35 ()
- (c) 37 ()
- (d) 38 ()
45. What is the value of $\sqrt[5]{(243)^2}$?
- (a) 6 ()
- (b) 7 ()
- (c) 8 ()
- (d) 9 ()
46. Find the value of $\sqrt{(0.65)^2 - (0.16)^2}$:
- (a) 0.54 ()
- (b) 0.63 ()
- (c) 0.65 ()
- (d) 0.64 ()
47. What is the value of $3\sqrt{5} \times 4\sqrt{5}$?
- (a) 50 ()
- (b) 70 ()
- (c) 65 ()
- (d) 60 ()

48. Ronald buys a geyser for ₹ 3680 and sells it at a gain of $7\frac{1}{2}$ %. For how much does he sell it?

- | | |
|------------|-----|
| (a) ₹ 3590 | () |
| (b) ₹ 3570 | () |
| (c) ₹ 3956 | () |
| (d) ₹ 3560 | () |

Direction (Question Nos 49 & 50) : A school surveyed 200 students to find their favorite sports. The results are shown in the pie chart below (percentages are given for each sector).

- Soccer: 40%
- Basketball: 25%
- Tennis: 15%
- Swimming: 10%
- Other: 10%

49. How many students chose Soccer as their favorite sport?

- | | |
|--------|-----|
| (a) 60 | () |
| (b) 70 | () |
| (c) 80 | () |
| (d) 90 | () |

50. How many more students prefer Basketball than Swimming?

- | | |
|--------|-----|
| (a) 20 | () |
| (b) 30 | () |
| (c) 25 | () |
| (d) 35 | () |

GENERAL INTELLIGENCE & REASONING - 100 MARKS

51. If all cats are mammals and all mammals have fur, what can be concluded about cats?

- | | |
|-----------------------|-----|
| (a) They have wings | () |
| (b) They have fur | () |
| (c) They are reptiles | () |
| (d) They can fly | () |

52. Which one is the odd one out?

- | | |
|------------|-----|
| (a) Apple | () |
| (b) Banana | () |
| (c) Carrot | () |
| (d) Mango | () |

53. If A is taller than B, and B is taller than C, what can be concluded about A and C?

- (a) A is shorter than C ()
- (b) A is taller than C ()
- (c) A and C are the same height ()
- (d) Cannot be determined ()

54. What comes next in the sequence: 2, 4, 6, 8, ?

- (a) 9 ()
- (b) 10 ()
- (c) 11 ()
- (d) 12 ()

55. Odometer : Mileage :: Compass : ?

- (a) Speed ()
- (b) Direction ()
- (c) Hiking ()
- (d) Needle Answer ()

56. Which shape has the most sides?

- (a) Triangle ()
- (b) Square ()
- (c) Pentagon ()
- (d) Hexagon ()

57. Window : Pane :: Book : ?

- (a) Novel ()
- (b) Glass ()
- (c) Page ()
- (d) Cover ()

58. If $B = 4$, $J = 20$, $Y = 50$, then $Z + R + M = ?$

- (a) 86 ()
- (b) 114 ()
- (c) 256 ()
- (d) 146 ()

59. $7 : 14 : 23 :: 5 : 12 : ?$

- (a) 18 ()
- (b) 19 ()
- (c) 21 ()
- (d) 25 ()

60. Which one is different from the others?

- (a) Book ()
- (b) Pen ()
- (c) Pencil ()
- (d) Chair ()

61. ADCB : KNML :: EHGF : ?
(a) QRST ()
(b) ZYXW ()
(c) DGFE ()
(d) RUST ()
62. If "CAT" is coded as "DCU", what is "DOG" coded as?
(a) EOI ()
(b) FPH ()
(c) EQH ()
(d) FQG ()
63. If "CLOUD" is coded as "DXMWF", how is "SMILE" coded?
(a) TFNKE ()
(b) TKGNO ()
(c) TYGNG ()
(d) TNKFE ()
64. A cube is painted blue on all its faces. If it is cut into 8 smaller cubes, how many of these smaller cubes will have exactly 3 faces painted?
(a) 1 ()
(b) 2 ()
(c) 4 ()
(d) 8 ()
65. A rectangular block is cut into 4 equal parts along its length. What is the shape of each part?
(a) Square ()
(b) Rectangular prism ()
(c) Triangular prism ()
(d) Pyramid ()
66. Identify the one that does not fit the pattern:
(a) Monday ()
(b) Tuesday ()
(c) Wednesday ()
(d) January ()
67. Which of the following numbers is the odd one out?
(a) 16 ()
(b) 25 ()
(c) 81 ()
(d) 49 ()
68. In a row of boys, Srinath is 7th from the left and Venkat is 12th from the right. If they interchange their positions, Srinath becomes 22nd from the left. How many boys are there in the row?
(a) 19 ()
(b) 31 ()
(c) 33 ()
(d) 34 ()

69. From the given words, select the word which cannot be formed using the letters of the given word.
Given - IMPASSIONABLE
- (a) IMPASSABLE ()
(b) IMPOSSIBLE ()
(c) IMPASSIVE ()
(d) IMPASSION ()
70. What is the interior angle formed by the hour hand and the minute hand of a clock when it is exactly 03:30 PM ?
- (a) 90° ()
(b) 75° ()
(c) 45° ()
(d) 60° ()
71. R, S, T, U, V, and W are six friends sitting around a circular table, facing towards the centre. W is an immediate neighbour of both U and S. T is sitting to the immediate right of S. U is sitting to the immediate right of R. Who is sitting to the immediate right of T?
- (a) U ()
(b) V ()
(c) W ()
(d) S ()
72. 'M' is the son of 'P'. 'Q' is the granddaughter of 'O' who is the husband of 'P'. How is 'M' related to 'O'?
- (a) Son ()
(b) Daughter ()
(c) Mother ()
(d) Father ()
73. Fish : Scales :: Bear : _____
- (a) Feathers ()
(b) Leaves ()
(c) Fur ()
(d) Skin ()
74. If ' $\times$ ' means 'addition', ' $-$ ' means 'division', ' $\div$ ' means 'subtraction' and ' $+$ ' means 'multiplication', then which of the following equations is correct?
- (a) $16 + 5 - 10 \times 4 \div 3 = 9$ ()
(b) $16 - 5 \times 10 \div 4 + 3 = 12$ ()
(c) $16 + 5 \div 10 \times 4 - 3 = 8$ ()
(d) $16 \times 5 \div 10 \div 4 - 3 = 19$ ()
75. A man starts from a point, walks 8 km towards North, turns right and walks 12 km, turns left and walks 7 km, turns and walks 24 km towards South, turns right and walks 12 km. In which direction is he from the starting point?
- (a) South East ()
(b) South ()
(c) South West ()
(d) North East ()

76. Select the odd one out :

- (a) Ladder ()
- (b) Staircase ()
- (c) Bridge ()
- (d) Escalator ()

77. Select the odd one out:

- (a) JKOP ()
- (b) MNST ()
- (c) CABD ()
- (d) OPWX ()

78. In a row of persons, the position of Liana from the left side of the row is 27th and position of Liana from the right side of the row is 34th. Find the total number of students in the row?

- (a) 60 ()
- (b) 61 ()
- (c) 62 ()
- (d) 59 ()

79. What is the mirror image of the letter 'b'?

- (a) m ()
- (b) p ()
- (c) q ()
- (d) d ()

80. Arrange the following words in a meaningful order:

- | | | |
|-------------|-----------------|---------------|
| (1) Birth | (2) Death | (3) Childhood |
| (4) Infancy | (5) Adolescence | (6) Adulthood |
- (a) 2, 6, 5, 4, 3, 1 ()
 - (b) 1, 4, 3, 5, 6, 2 ()
 - (c) 1, 4, 3, 6, 5, 2 ()
 - (d) 2, 6, 4, 5, 3, 1 ()

81. You have 3 tasks:

A (urgent, high impact) B (not urgent, low impact) C (urgent, low impact).

What do you do first?

- (a) A ()
- (b) B ()
- (c) C ()
- (d) B and C together ()

82. A friend asks you to lend ₹ 5000, but you're not sure they'll return it. What do you do?

- (a) Lend the money ()
- (b) Refuse to lend ()
- (c) Ask for collateral ()
- (d) Lend a smaller amount ()

83. Today is Monday, after 61 days, it will be:

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

84. You have 2 meetings and a deadline. What do you do?

- (a) Attend both meetings and miss the deadline ()
- (b) Skip one meeting and meet the deadline ()
- (c) Reschedule one meeting and meet the deadline ()
- (d) Work on the deadline and skip both meetings ()

85. Shadow : Light :: Reflection : ?

- (a) dirt ()
- (b) cloth ()
- (c) water ()
- (d) sky ()

86. Complete the series: ▲, △, ◀, ▽, ?

- (a) ▼ ()
- (b) ▶ ()
- (c) ◆ ()
- (d) ◇ ()

Direction (Question Nos. 87 - 88) : Refer to the alphanumeric series given below and answer the following questions:

A * 5 9 I N & E @ # U 1 &

87. How many vowels in the above arrangement are preceded by a symbol?

- (a) One ()
- (b) Two ()
- (c) Three ()
- (d) Four ()

88. Which is the second element to the left of the sixth element from the right?

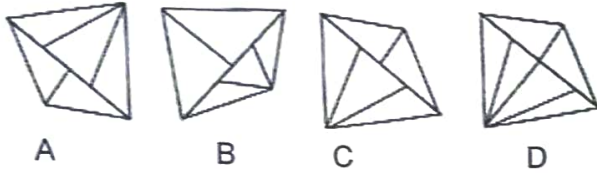
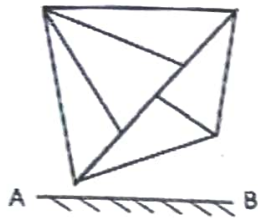
- (a) & ()
- (b) @ ()
- (c) N ()
- (d) E ()

89. Select the option that represents the correct order of the given words as they would appear in an English dictionary.

- | | |
|------------------|-----------------|
| (i) INUNDATE | (ii) INVIDIOUS |
| (iii) INDIVIDUAL | (iv) INVETERATE |
- (a) ii, iii, i, iv ()
 - (b) iii, i, iv, ii ()
 - (c) iii, i, ii, iv ()
 - (d) ii, i, iv, iii ()

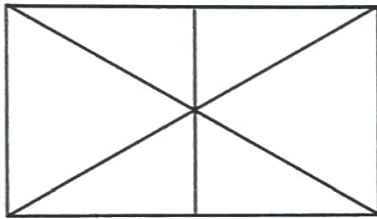
90. A machine can produce 100 units/hour as per its capacity, but 5 units are defective. What's the issue?
- (a) Machine speed ()
 - (b) Raw material quality ()
 - (c) Operator error ()
 - (d) Maintenance needed ()
91. If MANGO = 51279, APPLE=18864, then PAN = ?
- (a) 568 ()
 - (b) 625 ()
 - (c) 724 ()
 - (d) 812 ()
92. If South East becomes North, then what will South West become?
- (a) North ()
 - (b) South ()
 - (c) East ()
 - (d) West ()
93. 4, 16, 64, 256, ..?... , 4096
- (a) 512 ()
 - (b) 1024 ()
 - (c) 2048 ()
 - (d) 4096 ()
94. Amongst five friends, Dengi, Chhuana, Hmangaiha, Rinawma and Siama. Dengi is older than only three of her friends. Chhuana is younger to Rinawma and Dengi. Hmangaiha is older than only Siama. Who amongst them is the eldest?
- (a) Dengi ()
 - (b) Rinawma ()
 - (c) Chhuana ()
 - (d) Siama ()
95. What comes next: Plan, Design, Develop, ?
- (a) Test ()
 - (b) Deploy ()
 - (c) Launch ()
 - (d) Review ()
96. Which group of letters is different from others?
- (a) CBAED ()
 - (b) IJHGK ()
 - (c) TVWYZ ()
 - (d) SRQPT ()

97. Choose the correct image of the given image, when the mirror is held at position AB:



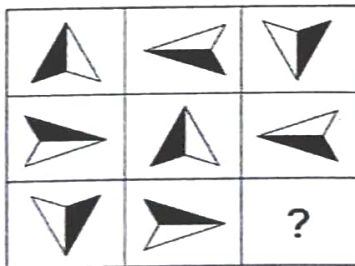
- (a) D ()
 (b) A ()
 (c) C ()
 (d) B ()

98. How many triangles are there in the given figure?



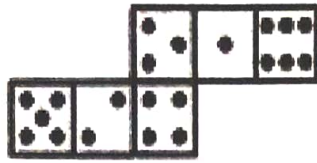
- (a) 12 ()
 (b) 14 ()
 (c) 16 ()
 (d) 18 ()

99. Which shape or pattern completes the ? sign of the given square picture?



- (a) C ()
 (b) A ()
 (c) B ()
 (d) D ()

100. How many dots lie opposite to the face having three dots, when the given figure is folded to form a cube?



- | | |
|------------|--------|
| (a) 2 dots | () |
| (b) 4 dots | () |
| (c) 5 dots | () |
| (d) 6 dots | () |
