



M-CAT GRAND FINALE

Sample Paper

(Based on the new exam pattern)



TOTAL MARKS
80



QUESTIONS
40



DURATION
60 mins

Instructions for Student:

- Read the question carefully before answering.
- Each question has 4 options (A, B, C & D).
- Choose one correct option as your answer from the 4 options.
- **New Exam Pattern:**
 1. Each question will carry 1, 2, or 4 marks, depending on its difficulty level.
 2. **Negative Marking:** Additional marks will be deducted for every incorrect answer (0.25 marks for a 1-mark question, 0.5 marks for a 2-mark question, and 1 mark for a 4-mark question).
 3. The Assessment Round score will be included in the Grand Finale score using a weighted average method. 30% of the Assessment Round and 70% of the Grand Finale score.
 4. New Method to Calculate Marks for Grand Finale Awards.

	Assessment Round	Grand Finale
Actual Marks	60	80
Weightage	30%	70%
Marks After Weighted Average Rule	$60 \times 30/100 = 18$	$80 \times 70/100 = 56$
Final Marks for Grand Finale Awards	$18 + 56 = 74$	

- On the answer sheet blacken the correct option against the corresponding question number.
- **Use pencil to mark your answer.**
- If you wish to change your answer, erase the previous mark completely.

All The Best !

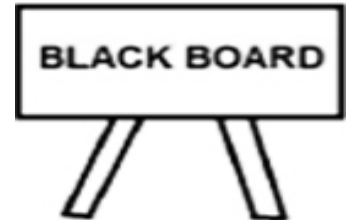
SECTION 1: Concept Check

1. Fill in the blank: $444 \text{ } \underline{\hspace{1cm}} 4 + 4 + 4$ (1m)

- a. $>$
- b. $<$
- c. $=$
- d. both b and c

2. Identify the shape of this blackboard. (1m)

- a. Rectangle
- b. Cone
- c. Circle
- d. Triangular

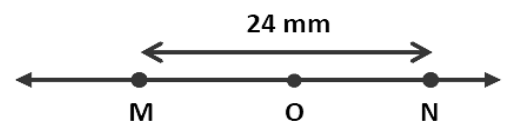


3. Find the missing number: $2 + \underline{\hspace{1cm}} = 15 + 2$ (1m)

- a. 15
- b. 12
- c. 7
- d. 6

4. What is the length of $\overleftrightarrow{MO}$, if $\overline{MO} = \overline{ON}$? (1m)

- a. 24 mm
- b. 12 mm
- c. Infinite
- d. None of these



5. Which of the following is the shortest in length? (1m)

- a. The length of a fingernail
- b. The height of a man
- c. The height of an elephant
- d. The length of the wire of a phone charger

6. Which of the following numbers has 3 in tens place? (1m)

- a. 359
- b. 453
- c. 835
- d. 943

7. Which of the following has a curved surface? (1m)

- a. Cube
- b. Cuboid
- c. Prism
- d. Cone

8. Find the difference between each number in the series: 40, 37, 34, 31, (1m)

- a. 2
- b. 3
- c. 4
- d. 5

9. Complete the pattern: (1m)



10. In the subtraction $80 - 30 = 50$, 80 is called the _____. (1m)

- a. Difference
- b. Subtrahend
- c. Minuend
- d. Addend

SECTION 2: Applied Mathematics

11. The multiplication (12×4) can be written as _____. (2m)

- a. $4 + 4 + 4 + 4$
- b. $12 + 12 + 12 + 12$
- c. $4 \times 4 \times 4 \times 4$
- d. $3 \times 4 \times 3 \times 4$

12. What is the difference between 6 tens and 10 ones? (2m)

- a. 64
- b. 50
- c. 650
- d. 500

13. What will be the quotient if dividend is 35 and divisor is 5? (2m)

- a. 8
- b. 7
- c. 10
- d. 9

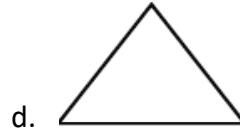
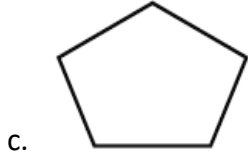
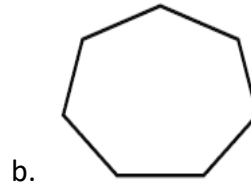
14. $407 + 113 + 20 =$ _____ (2m)

- a. 540
- b. 440
- c. 344
- d. 155

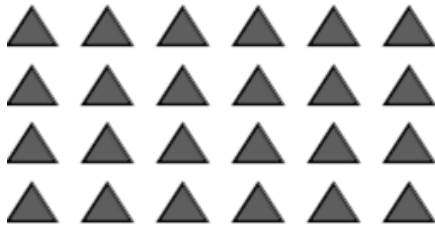
15. Which of the following is FALSE? (2m)

- a. $4 \times (5 \times 3) = 3 \times (4 \times 5)$
- b. $112435 \times 1 = 112435$
- c. $27 \times 0 = 0$
- d. $92 \times 10 = 921$

16. Which of the following shapes has an even number of sides? (2m)



17. Represent the number of triangles in the given figure in the form of division: (2m)



- a. $6 \div 6 = 24$
- b. $4 \div 6 = 24$
- c. $24 \div 4 = 6$
- d. None of these

18. What is the sum of the place values of 1 and 3 in 143? (2m)

- a. 13
- b. 4
- c. 103
- d. 301

19. Compare: $132 \div 6$ ____ $110 \div 5$ (2m)

- a. >
- b. <
- c. =
- d. Addend

20. Which of the following combinations of numbers does NOT add up to 100? (2m)

- a. $20 + 80$
- b. $60 + 40$
- c. $25 + 45$
- d. $70 + 30$

SECTION 3: Case-Based Mathematics

21. 6 bananas are distributed equally among 6 boys. How many bananas does each boy get? (2m)

- a. 0
- b. 1
- c. 2
- d. 3

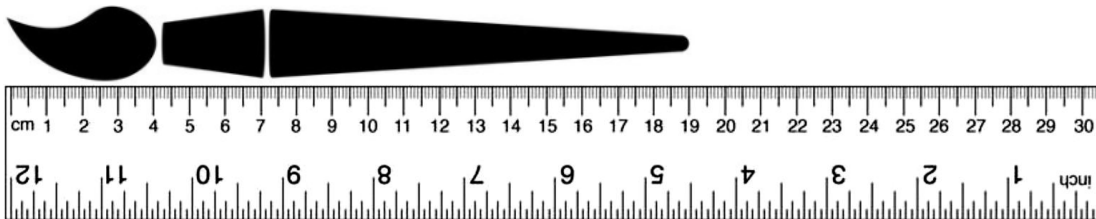
22. How many ₹ 5 notes can be exchanged for one ₹ 50 note? (2m)

- a. 2
- b. 1
- c. 5
- d. 10

23. Ram bought a bag for ₹ 70 and a pencil for ₹ 15. How much money did he pay in total? (2m)

- a. ₹ 70
- b. ₹ 95
- c. ₹ 80
- d. ₹ 85

24. Suraj wants to measure the length of his paintbrush. What is the length based on the diagram? (2m)



- a. 18 cm
- b. 16 cm
- c. 6 cm
- d. 19 cm

25. One bee has two wings. How many wings do 3 bees have? (2m)

- a. 6
- b. 2
- c. 12
- d. 9

26. Supriya has ₹ 650. She gave ₹ 333 to her younger brother. What is the amount of money left with Supriya? (2m)

- a. ₹ 350
- b. ₹ 323
- c. ₹ 217
- d. None of these

27. Sayali runs 150 m daily. What is the total distance run by Sayali in 6 days? (2m)

- a. 9 m
- b. 90 m
- c. 900 m
- d. None of these

28. Ram had 3 apples in Box A and 4 apples in Box B. How many apples did Ram have in total? (2m)

- a. 3
- b. 4
- c. 7
- d. 9

- 29. Shreya's school bus leaves her home at 4:10 p.m. and reaches school at 4:30 p.m. How many minutes does Shreya's bus journey take? (2m)**
- a. 6 min
 - b. 10 min
 - c. 20 min
 - d. 30 min
- 30. Meera arranges 3 rows of chairs. There are 4 chairs in each row. How many chairs are there altogether? (2m)**
- a. 7
 - b. 12
 - c. 10
 - d. 14
- 31. A birthday party starts at 4:30 p.m. Monica arrives 15 minutes after the party starts. At what time does Monica arrive? (2m)**
- a. 4:15 p.m.
 - b. 4:35 p.m.
 - c. 4:45 p.m.
 - d. 5:00 p.m.
- 32. Dev has a 1-metre-long rope. He cuts 40 cm from it. How much rope is left? (2m)**
- a. 40 cm
 - b. 50 cm
 - c. 60 cm
 - d. 140 cm
- 33. A water tank contains 30 litres of water on Monday. If 5 litres of water are added to the tank each day, how much water will the tank contain on Friday? (2m)**
- a. 45 litres
 - b. 50 litres
 - c. 55 litres
 - d. 60 litres
- 34. Nisha's art class starts when the clock shows the short hand at 3 and the long hand at 11. At what time does Nisha's art class start? (2m)**
- a. 03:11
 - b. 11:03
 - c. 3:55
 - d. 11:30
- 35. There are 6 cages in a pet shop. Each cage has 4 birds. If 3 birds are sold to one customer and 5 birds are sold to another customer, how many birds are left altogether? (2m)**
- a. 14
 - b. 15
 - c. 16
 - d. 17

SECTION 4: Challenger's Section

36. During the annual school sports day, students ran different distances in the marathon. (4m)

The distances were:

Ravi: 700 cm

Maya: 10 m

Priya: 70 cm

Kabir: 900 cm

Amay: 7 m

Statement I: Amay ran the same distance as Ravi.

Statement II: Kabir ran the longest distance among all the students.

- Statement I is true, and Statement II is false.
- Statement I is false, and Statement II is true.
- Both Statement I and Statement II are true.
- Both Statement I and Statement II are false.

37. The following pictograph gives information about the number of pastries ordered by different people. (4m)

PEOPLE	NUMBER OF PASTRIES ORDERED
Peter	  
Sandy	      
Bruno	         
John	   
Michael	      

Key:  = 1 pastry

Read the following statements and choose the correct option.

Statement I: The difference between the number of pastries ordered by Bruno and Sandy is 4.

Statement II: The number of pastries ordered by Michael is equal to the total number of pastries ordered by Peter and John.

- Statement I is true, and Statement II is false.
- Statement I is false, and Statement II is true.
- Both Statement I and Statement II are true.
- Both Statement I and Statement II are false.

38. Jane has 4 sticks. She is making different shapes using the sticks. She does not have to use all the sticks to make the shape. Which of the following shapes can Jane make? (4m)

- Square
 - Rectangle
 - Triangle
 - Hexagon
- 1 and 2 only
 - 1, 2 and 3 only
 - 2, 3 and 4 only
 - All of them

39. A train is scheduled to leave the station at 10:00 p.m. on Saturday. If the journey to its destination takes 11 hours, when will the train reach its destination? (4m)

- a. 10:00 p.m. on Sunday
- b. 10:00 a.m. on Saturday
- c. 09:00 a.m. on Sunday
- d. 09:00 p.m. on Saturday

40. Hannah is going on a school picnic on Monday. The picnic will last for 3 complete days. Read the statements carefully and select the CORRECT option. (4m)

Statement I: Hannah will return on Wednesday.

Statement II: Tuesday is the second day of the picnic.

- a. Both statements are true.
- b. Only Statement I is true.
- c. Only Statement II is true.
- d. Both statements are false.

