



Maple Online Classes
A-25 DLF Loni Ghaziabad UP 201301

TEST PAPER: INTEGERS
Class 07 - Mathematics

Time Allowed: 2 hours

Maximum Marks: 80

General Instructions:

All the questions are compulsory.

- There are 4 Sections of Questions as A, B, C and D.
- Section A has 10 Questions of 1 mark each.
- Section B has 10 Questions of 2 marks each.
- Section C has 15 Questions of 3 marks each.
- Section D has 1 Question of 5 marks.
- There are total 36 Questions in the Question paper,

Section A

1. Fill in the blanks: **[1]**

Use the sign of $>$, $<$ or $=$ in the blank to make the statement true: $(-8) + (-4)$ _____ $(-8) - (-4)$

2. Fill in the blanks: **[1]**

Use the sign of $>$, $<$ or $=$ in the blank to make the statement true $(-3) + 7 - (19)$ _____
 $15 - 8 + (-9)$

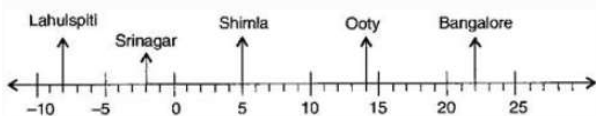
3. Fill in the blanks: **[1]**

Use the sign of $>$, $<$ or $=$ in the blank to make the statement true $23 - 41 + 11$ _____ $23 - 41 - 11$

4. Write down a pair of integers whose sum is -7 [1]
5. Fill in the blanks: [1]
 $-53 + \underline{\hspace{2cm}} = -53$
6. Fill in the blanks: [1]
 $[13 + (-12)] + (\underline{\hspace{2cm}}) = 13 + [(-12) + (-7)]$
7. Fill in the blanks: [1]
 $(-5) + (-8) = (-8) + (\underline{\hspace{2cm}})$
8. Find the product: $(-21) \times (-30)$ [1]
9. Find the product: $(-12) \times (-11) \times (10)$ [1]
10. Fill in the blanks: [1]
 $369 \div \underline{\hspace{2cm}} = 369$

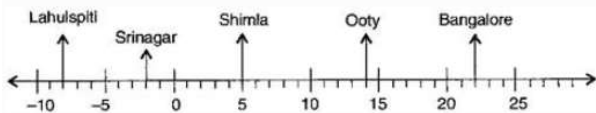
Section B

11. In this figure number line shows the temperature in degree celsius ($^{\circ}\text{C}$) at different places on a particular day. [2]



Observe this number line and write the temperature of the places marked on it.

12. Use the sign of $>$, $<$ or $=$ in the blank to make the statements true $-231 + 79 + 51 \dots -399 + 159 + 81$ [2]
13. Write a pair of integers whose difference is -10 . [2]
14. Write a negative integer and a positive integer whose difference is -3 . [2]
15. Find the product: $(-1) \times (-2) \times (-3) \times 4$ [2]
16. Determine the integer whose product with (-1) is -22 [2]
17. Find the product, using suitable properties: $(-17) \times (-29)$ [2]
18. Evaluate: $[(-36) \div 12] \div 3$ [2]
19. In this figure number line shows the temperature in degree celsius ($^{\circ}\text{C}$) at different places on a particular day. [2]



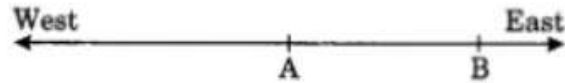
What is the temperature difference between Lahulspiti and Srinagar?

20. Use the sign of $>$, $<$ or $=$ in the blank to make the statements true $39 + (-24) - (15) \dots 36 + (-52) - (-36)$ [2]

Section C

21. At Srinagar temperature was -5°C on Monday and then it dropped by 2°C on Tuesday. [3]
 What was the temperature of Srinagar on Tuesday? On Wednesday, it rose by 4°C . What was the temperature on this day?

22. Rita goes 20 km towards east from a point A to the point B. From B, she moves 30 km towards west along the same road. If the distance towards the east is represented by a positive integer then, how will you represent the distance travelled towards the west? By which integer will you represent her final position from A? **[3]**



23. Verify $a - (-b) = a + b$ for the values of a and b, $a = 118$, $b = 125$ **[3]**
24. In a quiz, team A scored -40, 10, 0 and team B scored 10, 0, -40 in three successive rounds. Which team scored more? Can we say that we can add integers in any order? **[3]**
25. Verify: $18 \times [7 + (-3)] = [18 \times 7] + [18 \times (-3)]$ **[3]**
26. Find the product, using suitable properties: $26 \times (-48) + (-48) \times (-36)$ **[3]**
27. A cement company earns a profit of ₹ 8 per bag a white cement sold and a loss of ₹ 5 per bag of grey cement sold. The company sells 3000 bags of white cement and 5000 bags of grey cement in a month. What is its profit or loss? **[3]**
28. A certain freezing process requires that room temperature be lowered from 40°C at the rate of 5°C every hour. What will be the room temperature 10 hours after the process begins? **[3]**
29. Verify that $a \div (b + c) \neq (a \div b) + (a \div c)$ for the values of a, b, and c, $a = (-10)$, $b = 1$, $c = 1$ **[3]**
30. Write five pairs of integers (a, b) such that $a \div b = -3$. One such pair is (6, -2) because $6 \div (-2) = (-3)$ **[3]**
31. In a class test (+ 3) marks are given for every correct answer and (-2) marks are given for every incorrect answer and no marks for not attempting any question. Mohini scores -5 **[3]**

marks in this test, though she has got 7 correct answers. How many questions has she attempted incorrectly?

32. An elevator descends into a mine shaft at the rate of 6m/min. If the descent starts from 10 m above the ground level, how long will it take to reach -350 m? [3]
33. Suppose we represent the distance above the ground by a positive integer and that below the ground by a negative integer. If it begins to descend from 15 m above the ground, what will be its position after 45 minutes? [3]
34. A shopkeeper earns a profit of ₹ 1 by selling one pen and incurs a loss of 40 paise per pencil while selling pencils of her old stock. In the next month she earns neither profit nor loss. If she sold 70 pens, how many pencils did she sell? [3]
35. In a class test containing 15 questions, 4 marks are given for every correct answer and (-2) marks are given for every incorrect answer. Gurpreet attempts all questions but only 9 of her answers are correct. What is her total score? [3]

Section D

36. A water tank has steps inside it. A monkey is sitting on the topmost step (i.e., the first step). The water level is at the ninth step. [5]
- He jumps 3 steps down and then jumps back 2 steps up. In how many jumps will he reach the water level?
 - After drinking water, he wants to go back. For this, he jumps 4 steps up and then jumps back 2 steps down in every move. In how many jumps will he reach back the top step?
 - If the number of steps moved down is represented by negative integers and the number of steps moved up by positive integers, represent his moves in part (i) and (ii) by completing the following; (a) $-3 + 2 - \dots = -8$

(b) $4 - 2 + \dots = 8$.

In (a) the sum $(- 8)$ represents going down by eight steps. So, what will the sum 8 in (b) represent?

