Class 7: Integers - Question Paper

Total Marks: 40

Instructions:

- Answer all questions.

- Show all necessary steps.

- Marks are indicated beside each question.

Questions:

1. Evaluate: (−15) × (−8) + (−15) × (−2)   (2 marks)

2. Find the value of: |−24| − |15| + |−9| (2 marks)

3. A hot air balloon is at an altitude of 300 meters. It then descends 180 meters. What is its new altitude?   (2 marks)

4. Verify: a÷(b+c) ≠ (a÷b) + (a÷c) for a = −12, b = 2, c= −3.   (3 marks)

5. The product of two integers is -192. If one integer is -12, find the other integer.   (2 marks)

6. Arrange the following integers in ascending order: -30, 0, 22, -9, 38, -15.   (2 marks)

7. A merchant earns a profit of ₹60 on each item sold and incurs a loss of ₹20 on each defective item. If he sells 25 items and 10 are defective, calculate his net profit or loss. (3 marks)

8. Evaluate: [(−8) × 7] + [(−8) × (−12)]   (2 marks)

9. If a=−10 and b=−6, find the value of |a−b|.   (2 marks)

10. A plane is flying at a height of 80 meters above sea level. A diver is swimming 30 meters below sea level. What is the vertical distance between them? (2 marks)

11. Solve the following: $(−1)^{102} + (−1)^{99}$ (2 marks)

12. A test contains 12 questions. 5 marks are awarded for every correct answer and (-3) marks for every incorrect answer. Sarah attempted all questions, and 7 of her answers were correct. Find her total score.   (2 marks)

13. If x and y are two negative integers such that y > x, then write if x-y is positive or negative. Justify your answer.   (2 marks)

14. Evaluate: −24 + [(−12) ÷ (−3)] × (−2)   (2 marks)

15. A number when divided by -9 gives 15. Determine the number.   (2 marks)

16. State the property of addition illustrated by: (−13) + 0 = −13. (1 mark)

17. State the property of multiplication illustrated by: (−5) × (8) = (8) × (−5).   (1 mark)

18. Name the property used in: (−7) × [4+(−2)] = (−7) × 4 + (−7) × (−2).   (1 mark)

19. State the property of addition illustrated by: (−11) + 11=0.   (1 mark)

20. State the property of multiplication illustrated by: (−1) × (−1) = 1.   (1 mark)