General Instructions:

1. This question paper consists of **15 multiple-choice questions (MCQs)**.

2. Each question carries **1 mark**. The maximum marks for this test are **15**.

3. The total time allowed to complete this test is **20 minutes**.

4. All questions are compulsory.

5. Each question has **four options (A), (B), (C), and (D)**. Only one option is correct.

6. Students must choose the **most appropriate option** for each question.

7. No marks will be deducted for incorrect answers.

8. Calculators and other electronic devices are **not permitted**.

9. Rough work should be done neatly in the space provided (if any).

10. Read each question carefully before answering.

Test Paper 2

Test Code: 2026/Integers/Class7/02

1. Find P if $P \times (-5) = 120$.

   - 24
   - -24
   - 25
   - -25

   Solution:
   $$P \times (-5) = 120 \implies P = \frac{120}{-5} = -24$$

   Answer: $\boxed{B}$

2. The identity element for addition of integers is:

   - 1
   - -1
   - 0
   - Does not exist

   Solution: The identity element for addition is 0. **Answer:** $\boxed{C}$

3. An elevator descends at 5 m/min from 15m above ground. Time to reach -250m is:

   - 50 min
   - 53 min
   - 47 min
   - 60 min

   Solution: Total distance to descend: $15 - (-250) = 265$m. Time required: $\frac{265}{5} = 53$ minutes. **Answer:** $\boxed{B}$

4. The sum of an integer and its additive inverse is always:

   - Integer itself
   - 1

- 0
- -1

Solution: The sum of an integer and its additive inverse is always 0.
Answer: $\boxed{C}$

5. Simplify: $(-20) \times (-2) \times (-5) \times 4$

- 800
- -800
- 400
- -400

Solution:

$$(-20) \times (-2) = 40, \quad 40 \times (-5) = -200, \quad -200 \times 4 = -800$$

Answer: $\boxed{B}$

6. In a quiz, $+3$ for correct and -2 for incorrect answers. Rohit scored 20 with 10 correct answers. Incorrect answers $= ?$

- 5
- 10
- 2
- 8

Solution: Let the number of incorrect answers be x.

$$10 \times 3 + x \times (-2) = 20 \implies 30 - 2x = 20 \implies 2x = 10 \implies x = 5$$

Answer: $\boxed{A}$

7. The sign of the product of 15 negative and 2 positive integers is:

- Positive
- Negative
- Zero
- Cannot be determined

Solution: The product of an odd number of negative integers is negative. **Answer:** $\boxed{B}$

8. If $x \times (-1) = -25$, find x.

- −25
- 25
- 0
- 1

Solution:

$$x \times (-1) = -25 \implies x = 25$$

Answer: $\boxed{B}$

9. Which does **not** represent an integer?

- $0 \div (-5)$
- $(-15) \div 3$
- $(-7) \div (-2)$
- $(-10) \div (-1)$

Solution:

$$(-7) \div (-2) = 3.5 \quad \text{(Not an integer)}$$

Answer: $\boxed{C}$

10. $[(-16) \div 4] \times (-3) = \, ?$

- 12
- −12
- 48
- −48

Solution:

$$(-16) \div 4 = -4, \quad -4 \times (-3) = 12$$

Answer: $\boxed{A}$

11. If $x \div 5 = -3$, then $x =$

- 15
- −15
- 5
- −5

Solution:

$$x \div 5 = -3 \implies x = -3 \times 5 = -15$$

Answer: $\boxed{B}$

12. Room temperature drops 5°C/hour from 40°C. Temperature after 10 hours is:

- 10°C
- −10°C
- 5°C
- −5°C

Solution:
$$40 - (5 \times 10) = 40 - 50 = -10°\text{C}$$

Answer: $\boxed{B}$

13. Closure property does not hold for integers under:

- Addition
- Subtraction
- Multiplication
- Division

Solution: The closure property does not hold for division of integers.

Answer: $\boxed{D}$

14. Find: $125 \times (-67) + 125 \times (-33)$

- 12500
- −12500
- 1250
- −1250

Solution:
$$125 \times (-67) + 125 \times (-33) = 125 \times (-67 - 33) = 125 \times (-100) = -12500$$

Answer: $\boxed{B}$

15. What must be subtracted from −10 to get −43?

- 33
- −33
- 53
- −53

Solution:
$$-10 - x = -43 \implies x = -10 - (-43) = 33$$

Answer: $\boxed{A}$