CHAPTER 1
INTEGERS
QUESTION BANK
AVERAGE LEVEL

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AVERAGE LEVEL

Question 1.
(-11) × 7 is not equal to
(a) 11 × (-7)
(b) -(11 × 7)
(c) (- 11) × (- 7)
(d) 7 × (-11)
Question 2.
(- 10) × (- 5) + (- 7) is equal to
(a) -57
(b) 57
(c) -43
(d) 43
Question 3.
Which of the following is the multiplicative identity for an integer 0?
(a) a
(b) 1
(c) 0
(d) -1
Question 4. [(- 8) × (- 3)] × (- 4)] is not equal to
(a) (- 8) × [(- 3) × (- 4)]
(b) [(- 8) × (- 4)] × (- 3)
(c) [(- 3) × (- 8)] × (- 4)
(d) (- 8) × (- 3) – (- 8) × (- 4)
Question 5. (- 25) × [6 + 4] is not same as
(a) (-25) × 10
(b) (-25) × 6 + (- 25) × 4
(c) -25 × 6 × 4
(d) – 250
Question 6. – 35 × 107 is not same as
(a) – 35 × (100 + 7)
(b) (- 35) × 7 + (- 35) × 100
(c) – 35 × 7 + 100
(d) (-30 -5) × 107
Question 7. (- 43) × (- 99) + 43 is equal to
(a) 4300
(b) – 4300

(c) 425
(d) -4214
Question 8. (- 16) ÷ 4 is not same as
(a) (-4) ÷ 16
(b) -(16 ÷ 4)
(c) 16 ÷ (-4)
(d) – 4
Question 9. Which of the following does not represent an integer?
(a) 0 ÷ (- 7)
(b) 20 ÷ (- 4)
(c) (-9) ÷ 3
(d) (-12) ÷ 5
Question 10. Which of the following is different from the others?
(a) 20 + (-25)
(b) (-37) – (-32)
(c) (-5) × (— 1)
(d) 45 ÷ (- 9)
Question 11. If a and b are two integers, then which of the following may not be an integer?
(a) a + b
(b) a – b
(c) a × b
(d) a ÷ b
Question 12. For a non-zero integer a, which of the following is not defined?
(a) a ÷ 0
(b) 0 ÷ a
(c) a ÷1
(d) 1 ÷ a
Directions: Encircle the odd one of the following: (Questions 13 to 17)
Question 13. (a) (- 9) × 5 × 6 × (- 3)
(b) 9 × (-5) × 6 × (-3)
(c) (- 9) × (- 5) × (- 6) × 3
(d) 9 × (- 5) × (- 6) × 3
Question 14. (a) (-100) ÷ 5
(b) (-81) ÷ 9
(c) (- 75) ÷ 5
(d) (-32) ÷ 9
Question 15. (a) (- 1) × (- l)
(b) (- 1) × (- l) × (- 1)
(c) (-1) × (-1) × (-1) × (-1)
(d) (-1) × (-1) × (-1) × (-1) × (-1) × (-1)
Question 16. (a) (-3, 3)
(b) (-5, 5)
(c) (-6, 1)
(d) (-8, 8)

Question 17. (a) (-1, -2)
(b) (-5, 2)
(c) (- 4, 1)
(d) (- 9, 7)

MODERATE LEVEL

Directions: In questions 18 to 54, fill in the blanks to make the statements true.
Question 18. _____ ÷ (- 10) = 0
Question 19. (- 157) × (— 19) + 157 =_____ .
Question 20. On the following number line, (- 4) × 3 is represented by the point_____ .

Question 21. (- 8) + (- 8) + (- 8) =_____ × (- 8)
Question 22. 11 × (- 5) = – (_____ x____) =_____
Question 23. (- 9) × 20 =_____
Question 24. (- 23) × (42) = (- 42) ×_____
Question 25. While multiplying a positive integer and a negative integer, we multiply them as ___ numbers and put a ___ sign before the product.
Question 26. If we multiply___ number of negative integers, then the resulting integer is positive.
Question 27. If we multiply six negative integers and six positive integers, then the resulting integer is___ .
Question 28. If we multiply five positive integers and one negative integer, then the resulting integer is ___ .
Question 29. _____ is the multiplicative identity for integers.
Question 30. We get additive inverse of an integer a, when we multiply it by ___ . Question 31. (- 25) × (- 2) =_____.
Question 32. (- 5) × (- 6) × (- 7) =_____.
Question 33. 3 × (- 1) × (- 15) =_____.
Question 34. [12 × (- 7)] × 5 =_____ × [(- 7) × ____]
Question 35. 23 × (- 99) = ____ × (- 100 + ____) = 23 × ____ + 23 × ____
Question 36. _____ × (- 1) = – 35
Question 37. ____ × (- 1) = 47
Question 38. 88 × ____ = – 88
Question 39. ____ × (- 93) = 93
Question 40. (- 40) × ___ = 80
Question 41. ____ × (-23) = – 920
Question 42. When we divide a negative integer by a positive integer, we divide them as whole numbers and put a ____ sign before quotient.
Question 43. When (-16) is divided by ____ the quotient is 4.
Question 44. Division is the inverse operation of ____ .
Question 45. 65 ÷ (- 13) =_____.
Question 46. (-100) ÷ (-10) =_____.
Question 47. (-225) ÷ 5 = _____.

Question 48. _____ ÷ (-1) = (- 83)
Question 49. ____ ÷ (-1) = 75
Question 50. 51 ÷ ____ =(-51)
Question 51. 113 ÷ ____ = (- 1)
Question 52. -95 ÷ (-1) = 95
Question 53. (-69) ÷ 69 =_____.
Question 54. (-28) ÷ (-28) = _____
Question 55.
Evaluate:
(i) 427 × 8 + 2 × 427
(ii) 394 × 12 + 394 × (-2)
(iii) 558 × 27 + 3 × 558
Question56.
Evaluate:
(i) 673 × 9 + 673
(ii) 1925 × 101 – 1925
Question 57.
Verify:
(i) 37 × {8 + (-3)} = 37 × 8 + 37 × (-3)
(ii) (-82) × {(- 4) + 19} = (-82) × (- 4) + (-82) × 19
(iii) {7 – (-7)} × 7 = 7 × 7 – (-7) × 7
(iv) {(-15) – 8} × -6 = (-15) × (-6) – 8 × (-6)
= (-82) × (-4 + 19)
Question 58.
Evaluate:
(i) 15 × 8
(ii) 15 × (-8)
(iii) (-15) × 8
(iv) (-15) × -8
Question 59.
Evaluate:
(i) 4 × 6 × 8
(ii) 4 × 6 × (-8)
(iii) 4 × (-6) × 8
(iv) (-4) × 6 × 8
(v) 4 × (-6) × (-8)
Question 60.
Evaluate:
(i) 2 × 4 × 6 × 8
(ii) 2 × (-4) × 6 × 8
(iii) (-2) × 4 × (-6) × 8
(iv) (-2) × (-4) × 6 × (-8)
(v) (-2) × (-4) × (-6) × (-8)
Question 61.

Determine the integer whose product with '-1' is:
(i) -47
(ii) 63
(iii) -1
(iv) 0
Question 62.
Eighteen integers are multiplied together. What will be the sign of their product, if:
(i) 15 of them are negative and 3 are positive?
(ii) 12 of them are negative and 6 are positive?
(iii) 9 of them are positive and the remaining are negative?
Question 63.
Find which is greater?
(i) $(8 + 10) \times 15$ or $8 + 10 \times 15$
(ii) $12 \times (6 - 8)$ or $12 \times 6 - 8$
(iii) $\{(-3) - 4\} \times (-5)$ or $(-3) - 4 \times (-5)$
Question 64.
State, true or false:
(i) product of two different integers can be zero.
(ii) product of 120 negative integers and 121 positive integers is negative.
(iii) $a \times (b + c) = a \times b + c$
(iv) $(b - c) \times a = b - c \times a$.
Question 65.
Divide:
(i) 117 by 9
(ii) (-117) by 9
(iii) 117 by (-9)
(iv) (-117) by (-9)
(v) 225 by (-15)
(vi) $(-552) \div 24$
(vii) (-798) by (-21)
(viii) $(-910) \div 26$
Question 66.
Evaluate:
i)$(-234) \div 13$
(ii) $234 \div (-13)$
(iii) $(-234) \div (-13)$
(iv) $374 \div (-17)$
(v) $(-374) \div 17$
(vi) $(-374) \div (-17)$
(vii) $(-728) \div 14$
(viii) $272 \div (-17)$
Question 67.
Find the quotient in each of the following divisions:
(i) $299 \div 23$

(ii) 299 ÷ (-23)
(iii) (-384) ÷ 16
(iv) (-572) ÷ (-22)
(v) 408 ÷ (-17)
Question 68.
Divide:
(i) 204 by 17
(ii) 152 by – 19
(iii) 0 by 35
(iv) 0 by (-82)
(v) 5490 by 10
(vi) 762800 by 100
Question 69. true or false:
(i) 0 ÷ 32 = 0
(ii) 0 ÷ (-9) = 0
(iii) (-37) ÷ 0 = 0
(iv) 0 ÷ 0 = 0
Question 70.
Evaluate:
(i) 42 ÷ 7 + 4
(ii) 12 + 18 ÷ 3
(iii) 19 – 20 ÷ 4
(iv) 16 – 5 × 3 + 4
(v) 6 – 8 – (-6) ÷ 2
(vi) 13 – 12 ÷ 4 × 2
(vii) 16 + 8 ÷ 4 – 2 × 3
(viii) 16 ÷ 8 + 4 – 2 × 3
(ix) 16 – 8 + 4 ÷ 2 × 3
(x) (-4) + (-12) ÷ (-6)
(xi) (-18) + 6 ÷ 3 + 5
(xii) (-20) × (-1) + 14 ÷ 7
Question 71.Evaluate:
18 – (20 – 15 ÷ 3)
Question 72.
– 15 + 24 ÷ (15 – 13)
Question 74. **[**46 – [26 – {14 – (15 – 4 ÷ 2 × 2)}]
Question 75.
45 – [38 – {60 ÷ 3 – (6 – 9 ÷ 3) ÷ 3}]
Question 76.
88 – {5 – (-48) ÷ (-16)}

HIGHER LEVEL

Question 77.
The sum of two integers is – 15. If one of them is 9, find the other.
Question 78.

The difference between integers x and – 6 is – 5. Find the values of x.
Question 79.
The sum of two integers is 28. If one integer is – 45, find the other.
Question 80.
The sum of two integers is – 56. If one integer is – 42, find the other.
Question 81.
The difference between an integer x and (-9) is 6. Find all possible values of x.
Question 82.
Evaluate:
(i) (-1) × (-1) × (-1) × …… 60 times.
(ii) (-1) × (-1) × (-1) × (-1) × …….. 75 times.
Question 83.
Evaluate:
i)(-2) × (-3) × (-4) × (-5) × (-6)
(ii) (-3) × (-6) × (-9) × (-12)
iii) 10 × (-12) + 5 × (-12)

iv) 10 × (-12) + 5 × (-12)

Question 84.

(i) If x × (-1) = – 36, is x positive or negative?

(ii) If x × (-1) = 36, is x positive or negative?

Question 85.

Write all the integers between – 15 and 15, which are divisible by 2 and 3.10. Write all the integers between – 5 and 5, which are divisible by 2 or 3.

Question 86. Evaluate:

(i) (-20) + (-8) ÷ (-2) × 3

(ii) (-5) – (-48) ÷ (-16) + (-2) × 6

(iii) 16 + 8 ÷ 4 – 2 × 3

(iv) 16 ÷ 8 × 4 – 2 × 3

(v) 27 – [5 + {28 – (29 – 7)}]

(vi) – 8 – {- 6 (9 – 11) + 18 ÷ -3}

Question 87.

Add the product of (-13) and (-17) to the quotient of (-187) and 11.

Question 88.

The product of two integers is – 180. If one of them is 12, find the other.

Question 89.

(i) A number changes from – 20 to 30. What is the increase or decrease in the number?

(ii) A number changes from 40 to – 30. What is the increase or decrease in the number?