Q1. Verify the following:

    (i)   a - (-b) = a + b when a=-88 and 102

    (ii)   21 × [18 + (-13)] = [21 × 18] + [21 × (-13)]

    (iii)   (-15) × [8 + (-12)] = (-15) × 8 + (-15) × (-12)

Q2. Fill in the blanks with integer to make true statement:

    (i)   72 ÷ (…) = -4

    (ii)   -36 ÷ (…) = -4

    (iii)   (-36) ÷ (…) = 4

    (iv)   56 × (…) = -280

    (v)   (…) – (28) = -68

    (vi)   (…) ÷ (25) = 0

    (vii)   (…) ÷ (-4) = 24

    (viii) 76 + (…) = -56

Q3. Compare the sums and confirm if they are equal

    (i)   10 + (-22) and -10 + 22

    (ii)   36 – (-64) and (-64) – 36

Q4. Write down a pair of integers whose

    (i)   Sum is 55

    (ii)   Product is -15

    (iii)   Difference is -21

    (iv)   Sum is 0

    (v)   Product is -36

    (vi)   Quotient is -15

    (vii)   Difference is 8

Q.5 Write the next 3 numbers in the pattern -62, -37, -12, _____, _____, _____

Q.5 Subtract sum if (-1234) and 5000 from the difference of (-93) and (-102)

Q6. Find the value of -16 ÷ [8 ÷ (-2)]

Q7. Find the product using suitable properties:

  (i)   165 × (-68) + (165) × (-32)
  (ii)   8 × 25 × (-125) × (-40)
  (iii)   13 × (-106)

Q8. Product of a negative integer and a positive integer is always _____

Q9. State True or False

  (i)   Every integer when multiplied with -1 gives its multiplicative inverse
  (ii)   The product of a negative and a negative number is always positive.
  (iii)   Every non zero integer has a multiplicative inverse as an integer

Q10. In a class test containing 15 questions, 4 marks are awarded for every correct answer and (-2) marks awarded for every incorrect answer and (0) for not attempted questions.

  (a) Mohan gets 10 correct and 5 incorrect answers. What is his score?
  (b) Joti gets 7 correct and 6 incorrect answers out of 13 attempted questions. What is her score?
  (c) Ravi scored 18 marks. If he has got 8 correct answers, how many questions she attempted incorrectly. How many he did not attempt>

Q11. A cement factory earns a profit of 12 rupees per bag of white cement sold and a loss of 7 rupees per bag of grey cement

  (a) Company sells 910 bags of white cement and sold 1400 bags of grey cement in a month. What is its profit or loss?
  (b) What is the number of white cement bags it must sell to have neither net profit or loss if the number of bags. Number of grey bags sold is 12000