Pg-1

## VII — Mathematics Assignments No.-04 — Integers

Q1. Which of the following statements are true?

(I) The Sum of two integers is always an integer.

(ii) The difference of two integers is always an integer

(iii) In integers, Commutative property for Subtraction is always true.

(iv) $-14 > -8 - (-7)$

(v) $|18 - (-7)| = |18| - |(-7)|$

(v) Sum of four integers can never be Zero

Q2. Subtract $-8$ from 11. Also subtract 11 from $(-8)$ Are the two results equal?

Q3. Subtract the Sum of $-99$ and 104 from 576

Q4. Subtract the Sum of $(-123)$ and $(-154)$ from the Sum of 1023 and $(-96)$

Q5. Find the value of
$$1 + 2 - 3 + 4 - 5 + 6 - 7 + 8 - 9 + \cdots \cdots + 16 - 17 + 18 - 19$$

ANSWERS:-

| | | |
|---|---|---|
| 21 (i),(ii) | (Q4) 1204 | |
| 22 No | (Q5) (-8) | |
| 23. 571 | | |

Q6 Find the value of

(i) $410 + (-56) + (-96) + 17 + (-50)$

(ii) $-81 + (-21) + 75 + (-25) + 230$

Q7. Find the value of the following products.

(i) $(-3) \times (-12) \times (-20) \times (15)$

(ii) $(-15) \times (-20) \times (17) \times (5)$

Q8. If $x \times (-1) = -50$, is the integer 'x' positive or negative?

Q9. State which is greater

(i) $(7+8) \times 11$ and $8 + 7 \times 11$

(ii) $(9-8) \times 11$ and $9 - 8 \times 11$

Q10 Write True or False for the following statements

(i) Product of a positive and negative integer is positive

(ii) The product of three negative integers is a negative integer

(iii) For all non-zero integers a and b, a×b is always greater than either a or b

(iv) Every integer has both a predecessor and a successor

(v) The product of a negative and a positive integer may be zero

ANSWERS:-

| | | | |
|---|---|---|---|
| 26) (i) 225 | Q8 Positive | Q10. | (iv) T |
| (ii) 178 | Q9.(i)(7+8)×11 | (i) F | (v) F |
| 27) (i) -10800 | (ii) (9-8)×11 | (ii) T | |
| (ii) 25500 | | (iii) T | |