V & C Patel English School
Half Yearly Exam

Std.: VI

Subject: Mathematics

Max. Marks: 80

Date: 11/09/17

Time: 3 Hours

General Instructions:

Section A: Q.No. 1 to 8 carry 1 mark each
Section B: Q.No. 9 to 16 carry 2 marks each
Section C: Q.No. 17 to 24 carry 3 marks each
Section D: Q.No. 25 to 32 carry 4 marks each

Section-A

1. Write the Hindu Arabic numeral for DCCXLVI.
2. All whole numbers are natural numbers. True or False?
3. Write all the factors of 36.
4. Draw any polygon and shade its interior.
5. Draw a closed curve that is not a polygon.
6. Draw a line segment of 8.5 cm.
7. Represent the following number as integer with appropriate sign: Withdrawal of rupees nine hundred.
8. What fraction of a day is 6 hours?

Section-B

9. Expand the bracket : 16×108
10. Write down separately all the prime and composite numbers less than 30.
11. Write the predecessor of :
    (i)   965840   (ii)   89999
12. Draw a rough sketch of a triangle PQR. Mark a point A in its interior and a point B in its exterior.
13. Let AB be the perpendicular to the line segment PQ. Let $\overline{AB}$ and $\overline{PQ}$ intersect at the point X. What is the measure of $\angle AXQ$.
14. Give reasons for the following :
    (i)   A square can be thought of a special rhombus.
    (ii)   Squares, rectangles, parallelograms are all quadrilaterals.
15. Write four negative integers greater than -10.
16. Express the following as mixed fractions :
    (i) $\frac{19}{3}$ (ii) $\frac{40}{9}$

Section-C

17. Estimate each of the following by rounding off to nearest hundreds:
    (i) $38,596 - 32,433$ (ii) 6291×522

18. Find the value of the following :
    (i) $398 \times 17 + 398 \times 3$ (ii) $81594 \times 156 - 81594 \times 56$
19. Write all the numbers less than 100 which are common multiples of 4 and 5.
20. Draw a rough sketch of a quadrilateral ABCD. Name all the four angles of the quadrilateral drawn.
21. Name the types of following triangles :
    (i)   Two sides of equal length.
    (ii)   One obtuse angle
    (iii)   Three sides of equal length.
22. Find the sum of :
    (i) $(32) + (-11) + (5) + (-16)$ (ii) $(-26) + (-12) + (8) + (-2)$
23. Represent the following on a number line :
    (i) $+6$ (ii) -10 (iii) -1
24. Reduce the following fractions to simplest form :
    (i) $\frac{7}{56}$ (ii) $\frac{12}{108}$ (iii) $\frac{180}{90}$

Section-D

25. A merchant had Rs 83,786 with her. She placed an order for purchasing 50 blankets at Rs 600 each. How much money will remain with her after the purchase? Later she donated these blankets to child orphanage. By, doing this act, what values are depicted by her?

26. Observe the following pattern and write the next four steps of it :
$$1 \times 8 + 1 = 9$$
$$12 \times 8 + 2 = 98$$
$$123 \times 8 + 3 = 987$$

27. Determine the smallest 3- digit number which is exactly divisible by 6, 8 and 12.

28. Draw any circle and mark :
    (i)   Its centre   (v)   A segment
    (ii)   A diameter   (vi)   A sector
    (iii)   A chord   (vii) A point in its interior
    (iv)   A radius   (viii) A point in its exterior

29. Draw the angles of the following measure using the protractor :
    (i) $75°$ (ii) $140°$

30. Fill in the blanks with $>$, $=$ or $<$ sign :
    (i) $(-20) - (-13)$ _____ $(-22) + (-10)$

    (ii) $46 - (-11)$ _____ $69 + (-12)$

31. Rahul takes $3\frac{1}{5}$ minutes to walk across the garden. Rahim takes $\frac{6}{4}$ minutes to do the same. Who takes the less time and by what fraction?

32. Solve the following :
    (i) $\frac{1}{2} + \frac{4}{5} + \frac{2}{3}$ (ii) $3\frac{1}{3} - 2\frac{1}{4}$

BEST OF LUCK