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SECTION – A (Each question carries 1 mark)

1. \((-1) \times (-1) \times (-1) \times (-1)\) is equal to
   (a) 2  (b) 1  (c) -1  (d) -2
2. Which of the following is a proper fraction?
   (a) \(\frac{7}{4}\)  (b) \(\frac{4}{7}\)  (c) \(-\frac{5}{2}\)  (d) None of these
3. \(0.4 \div 2 =\)
   (a) 0.4  (b) 0.2  (c) 0.1  (d) 0.8
4. The supplementary angle for 50° is
   (a) 50°  (b) 40°  (c) 130°  (d) 90°
5. The angle which is equal to its complement is
   (a) 40°  (b) 90°  (c) 45°  (d) 60°

SECTION – B (Each question carries 2 marks)

6. Evaluate
   (a) \((-30) \div 10\)      (b) \((50) \div (-5)\)
7. Find the product
   (a) \((-1) \times (-225)\)    (b) \((-15) \times (-10) \times 0\)
8. Express the following as rupees using decimals
   (a) 7 paise      (b) 230 paise
9. Find the value of \(\frac{2}{3}\) of 18
10. From the given figure, identify a pair of
    (a) vertically opposite angles
    (b) linear pairs

11. Fill in the blanks
    (a) If two angles are supplementary, then the sum of their measures is _________
    (b) If two lines intersect at a point, then the vertically opposite angles are _________
SECTION – C (Each question carries 3 marks)

12. Find the product using suitable property
   (a) 26 x (-48) + (-48) x (-36)
   (b) 8 x 83 x (-125)

13. Multiply and reduce to lowest form
   (a) \( \frac{5}{2} \times 6 \) (b) \( 20 \times \frac{4}{5} \)

14. Find
   (a) \( 12 \div \frac{3}{4} \) (b) \( \frac{4}{3} \div 2 \)

15. Find the values of ‘x’ and ‘y’ in the 55°
    Following figure and give reasons

16. From the adjoining figure answer

   The following questions
   (a) Name one pair of the angles which are obtuse
       and vertically opposite
   (b) Name one pair of the angles which are adjacent
       and complementary angles
   (c) Name one pair of equal
       Supplementary angles

SECTION – D (Each question carries 4 marks)

16. Sushant reads \( \frac{1}{3} \) part of a book in 1 hour. How much part of the book will he read in
    \( 2 \frac{1}{5} \) hours

17. In the given figure
    The line \( l \parallel m \) and \( p \) is a
    Transversal, then find the
    Values of \( x \), \( y \), \( z \)(Give reasons)
SECTION – A
1) b  2)b  3) b  4) c  5) c

SECTION – B
6) (a) -3  ------------------------------- 1 mark
   (b) -10 ------------------------------- 1 mark
7) (a) 225  ------------------------------- 1 mark
   (b) 0  ------------------------------- 1 mark
8) (a) Rs. 0.07  ------------------------------- 1 mark
   (b) Rs. 2.30  ------------------------------- 1 mark
9) 2/3 x 18  ------------------------------- 1 mark
   Simplification & final answer 12  ------------------------------- 1 mark
10) (a) Vertically opposite angles are 2 and 5  ------------------------------- 1 mark
   (b) Linear pair(s) of angles 1 and 2 (OR) 1 and 5  ------------------------------- 1 mark
11) (a) 180°  ------------------------------- 1 mark
    (b) equal  ------------------------------- 1 mark

SECTION – C
12) (a) -48 [ (26) + (-36) ]  ------------------------------- 1 mark
    - 48 [ -10 ]  ------------------------------- 1 mark
    480  ------------------------------- 1 mark
    (b) 83 x 8 x -125  ------------------------------- ½ mark
        83 x -1000  ------------------------------- ½ mark
        -83000  ------------------------------- ½ mark
13) (a) 30/2  ------------------------------- 1 mark
    15  ------------------------------- ½ mark
    b) 80/5  ------------------------------- 1 mark
16  ------------------------------- ½ mark
14) (a) \( 12 \times \frac{4}{3} \)  

16)  

b) \( \frac{4}{3} \times \frac{1}{2} \)  

\( \frac{2}{3} \)  

1 mark

15) (a) \( x = 55^\circ \) (vertically opposite angles)  

(b) \( y = 125^\circ \) (linear pair)

1 mark

16) (a) \( \angle AOD \) and \( \angle BOC \) are vertically opposite and obtuse angles--- 1 mark

b) \( \angle BOA \) and \( \angle AOE \) are adjacent and complementary angles ---- 1 mark

c) \( \angle BOE \) and \( \angle DOE \) are equal supplementary angles------- 1 mark

SECTION D

17) part of a book read in 1 hour = \( \frac{1}{3} \)  

Total time = \( 2 \frac{1}{5} \) hour  

\( = 11/5 \) hour  

Part of the book read in \( 2 \frac{1}{5} \) hour = \( \frac{11}{5} \times \frac{1}{3} \)  

\( = 11/15 \) part

1 mark

18) \( x = 100^\circ \) (vertically opposite angles)

\( Y = 100^\circ \) (corresponding angles OR alternate interior angles when compared with x)

\( Z = 80^\circ \) (y and z are linear pair) OR

\( (X \text{ and } z \text{ are the angles on the same side of transversal}) \)

[ for each answer 1 mark \times 3 = 3 \text{marks} & \text{reason(s)} 1 \text{mark}]