MULTIPLE CHOICE QUESTIONS:

1. A pair of complementary angles is
(a) 130^0 , 50^0 (b) 35^0 , 55^0 (c) 25^0 , 75^0 (d) 27^0 , 53^0

2. A pair of supplementary angles are
    (a) 55^0 , 115^0 (b) 65^0 , 125^0 (c) 47^0 , 133^0 (d) 40^0 , 50^0

3. If an angle is one-third of its supplement, then the measure of the angle is
    (a) 45^0 (b) 30^0 (c) 135^0 (d) 150^0

4. If an angle measures 10^0 more than its complement, then the measure of the angle is
    (a) 40^0 (b) 55^0 (c) 35^0 (d) 50^0

5. If one angle of a linear pair is acute, then the other angle is
    (a) acute   (b) obtuse   (c) right   (d) straight

6. Vertically opposite angles are always
    (a) Supplementary   (b) complementary   (c) adjacent   (d) equal

7. If an angle is 60° less than two times of its supplement, then the greater angle is
     (a) 100°   (b) 80°   (c) 60°   (d) 120°

8. If two supplementary angles are in the ratio 1 : 2, then the bigger angle is
    (a) 120°   (b) 125°   (c) 110°   (d) 90°

9. The difference of two complementary angles is 30°. Then, the angles are
    (a) 60°, 30°   (b) 70°, 40°   (c) 20°,50°   (d) 105°,75°

10. Angles between South and West and South and East are
     (a) Vertically opposite angles
     (b) Complementary angles
     (c) Making a linear pair
     (d) Adjacent but not supplementary

    FILL IN THE BLANKS:

11. If two angles are complementary, then the sum of their measures is …………….

12. If two angles are supplementary, then the sum of their measures is ……………

13. Supplement of an obtuse angle is ……………..

14. Complement of 37^0 is…………..

15. Two angles forming a linear pair are ……………

16. If two adjacent angles are supplementary, then they form a ………..

17. If two supplementary angles are placed adjacent to each other, then they form a ……

18. Angles formed by two intersecting lines having no common arms are called………….

19. If two lines intersect, then vertically opposite angles are always………….

20. If two lines intersect and if one pair of vertically opposite angles are acute angles, then the other pair of vertically opposite angles are………

21. If two lines are cut by a transversal such that pair of corresponding angles are not equal, then the lines are……….

22. If two parallel lines are cut by a transversal, then the sum of measures of two interior angles on the same side of the transversal is ……….

STATE WHETHER THE FOLLOWING STATEMENTS ARE TRUE (T) ORFALSE (F):

23. Two obtuse angles can be supplementary.
24. Two acute angles can form a linear pair.
25. Two obtuse angles can form a linear pair.
26. Pair of vertically opposite angles are always supplementary.
27. 30^0 is one half of its complement.
28. If two lines are cut by a transversal, then each pair of corresponding angles are equal.
29. If two lines are cut by a transversal, then each pair of alternate interior angles are equal.

Answers

1. B
2. C
3. A
4. D
5. B
6. D
7. A
8. A
9. A
10. C
11. 90^0
12. 180^0
13. An acute angle
14. 53^0
15. Supplementary
16. Linear pair
17. Linear pair
18. Vertically opposite angles
19. Equal
20. Obtuse
21. Not parallel
22. 180^0
23. False
24. False
25. False
26. False
27. True
28. False
29. False