

WORKSHEET DAY 8 – STRAIGHT LINE

LEVEL 1

Question
based on

Distance Formula and its Applications

- Q.1** The distance of the point (3, 4) from origin is -
(A) 4 (B) 3 (C) 5 (D) 7
- Q.2** The coordinates of a point are (0, 1) and the ordinate of another point is -3. If the distance between the two points is 5 then the abscissa of another point is -
(A) -3 (B) 3 (C) ± 3 (D) 1
- Q.3** The points (0, -1); (2, 1); (0, 3) and (-2, 1) are vertices of a -
(A) Rectangle
(B) Square
(C) Rhombus
(D) Parallelogram
- Q.4** The triangle with vertices (1, 5); (-3, 1) and (3, -5) is -
(A) isosceles (B) equilateral
(C) right angled (D) None of these
- Q.5** The quadrilateral formed by the points (a, -b), (0, 0), (-a, b) and (ab, -b²) is -
(A) rectangle (B) parallelogram
(C) square (D) None of these
- Q.6** If the points (1, 1) (-1, -1) and $(-\sqrt{3}, k)$ are vertices of an equilateral triangle then the value of k will be -
(A) -1 (B) 1 (C) $\sqrt{3}$ (D) $-\sqrt{3}$
- Q.7** If vertices of a triangle are (0, 4), (4, 1) and (7, 5), then its perimeter is -
(A) $5(\sqrt{2} + \sqrt{5})$ (B) $2\sqrt{2}$
(C) $5(2 + \sqrt{2})$ (D) $2\sqrt{5}$
- Q.8** If the points (4, -4), (-4, 4) and (x, y) form an equilateral triangle, then -
(A) $x = -4\sqrt{3}, y = 4\sqrt{3}$
(B) $x = 4\sqrt{3}, y = -4\sqrt{3}$
(C) $x = 4\sqrt{3}, y = 4\sqrt{3}$
(D) None of these
- Q.9** If P, Q, R are collinear points such that P(7, 7), Q(3, 4) and PR = 10, then R is -
(A) (1, 1) (B) (1, -1)
(C) (-1, 1) (D) (-1, -1)

Question
based on

Section Formula

- Q.10** If (3, -4) and (-6, 5) are the extremities of the diagonal of a parallelogram and (-2, 1) is its third vertex, then its fourth vertex is -
(A) (-1, 0) (B) (-1, 1)
(C) (0, -1) (D) None of these
- Q.11** The coordinates of the point which divides the line segment joining (-3, -4) and (-8, 7) externally in the ratio 7:5 are -
(A) $(41/2, 69/2)$ (B) $(-41/2, -69/2)$
(C) $(-41/2, 69/2)$ (D) None of these
- Q.12** The ratio in which the point (8, 4) divides the line segment joining the points (5, -2) and (9, 6) is -
(A) 2 : 1 (B) 3 : 1 (C) 2 : 3 (D) 1 : 2
- Q.13** If x-axis divides the line joining (3, 4) and (5, 6) in the ratio $\lambda : 1$ then λ is -
(A) $-\frac{3}{2}$ (B) $-\frac{2}{3}$ (C) $\frac{3}{4}$ (D) $\frac{1}{3}$
- Q.14** If the point dividing internally the line segment joining the points (a, b) and (5, 7) in the ratio 2 : 1 be (4, 6), then -
(A) a = 2, b = -4 (B) a = 1, b = 2
(C) a = 2, b = 4 (D) a = -2, b = 4
- Q.15** Coordinates of trisection of line joining points (-3, -3) and (6, 6) is -
(A) (0, 0), (3, -3) (B) (0, 0), (3, 3)
(C) (1, 1), (3, 3) (D) (1, 1), (-3, 3)
- Q.16** The ratio in which x-axis divides the join of the points (2, -3) and (5, 6) is -
(A) 2 : -1 (B) 1 : 2
(C) 2 : 1 (D) None of these
- Q.17** The line segment joining the points (3, 4) and (7, 8) is divided by the line $2x + 3y + 7 = 0$ in the ratio -
(A) 1/5 : 9 externally (B) 5 : 9 internally
(C) 5 : 1/9 externally (D) 5 : 9 externally
- Q.18** If the middle point of the line segment joining the points (5, a) and (b, 7) be (3, 5), then (a, b) is -
(A) (3, 1) (B) (-2, -2)
(C) (1, 3) (D) (-3, -1)

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Q.19 The point (5, -1) divides the line segment joining points A and B in the ratio 2 : 3. If A is (11, -3), then B will be -
 (A) (4, -2) (B) (4, 2)

(C) (-4, 2) (D) (-4, -2)

Q.20 The line segment joining the points (-3, -4) and (1, 2) is divided by y-axis in the ratio -
 (A) 2 : 3 (B) 1 : 3 (C) 3 : 1 (D) 3 : 2

Question
based on

Centres of the Triangle

Q.21 If two vertices joining the hypotenuse of a right angled triangle are (0, 0) and (3, 4), then the length of the median through the vertex having right angle is -
 (A) 3 (B) 2 (C) 5/2 (D) 7/2

Q.22 The centroid of a triangle with vertices (2, 1); (5, 2) and (3, 4) is -
 (A) (8/3, 7/3) (B) (10/3, 7/3)
 (C) (-10/3, 7/3) (D) (10/3, -7/3)

Q.23 If the vertices of a triangle be (a, b-c), (b, c-a) and (c, a-b), then the centroid of the triangle lies -
 (A) On y-axis (B) On x-axis
 (C) At origin (D) None of these

Q.24 If (-4, 6), (2, 3) and (-2, -5) are vertices of a triangle, then its incentre is -
 (A) (-1, 2) (B) (2, -1)
 (C) (1, 2) (D) (2, 1)

Q.25 Circumcentre of a triangle whose vertex are (0,0), (4,0) and (0,6) is -
 (A) $\left(\frac{4}{3}, 2\right)$ (B) (0, 0)
 (C) (2, 3) (D) (4, 6)

Q.26 Orthocentre of a triangle whose vertex are (8,-2), (2,-2) and (8,6) is -
 (A) (8, -2) (B) (8, 6)
 (C) $\left(\frac{18}{3}, \frac{2}{3}\right)$ (D) (0, 0)

Q.27 The distance of orthocentre of the triangle (2, 3), (4, 5) and (-1, 10) from (2, 3) is -
 (A) $2\sqrt{2}$ (B) $\sqrt{2}$ (C) 4 (D) 2

Q.28 A triangle whose vertex are (2, 3), (4, 5) and (-2, 11), distance between circumcentre and vertex (4, 5) is -
 (A) 2 (B) $4\sqrt{5}$ (C) $2\sqrt{5}$ (D) 4

Q.29 If A (4, -3); B (3, -2) and C(2, 8) are vertices of a triangle, then the distance of its centroid from y- axis is -
 (A) 9/2 (B) 1
 (C) 3 (D) 1/2

Q.30 If the vertices of a triangle be (0, 0), (6, 0) and (6, 8), then its incentre will be -
 (A) (1, 2) (B) (2, 1)
 (C) (4, 2) (D) (2, 4)

Q.31 The circumcentre of the triangle with vertices (0, 0); (3, 0) and (0, 4) is -
 (A) (1, 1) (B) (2, 3/2)
 (C) (3/2, 1) (D) None of these

Q.32 The distance of the centroid from the origin of the triangle formed by the points (1, 1), (0, -7) and (-4, 0) is -
 (A) $\sqrt{2}$ (B) $\sqrt{4}$
 (C) $\sqrt{3}$ (D) $\sqrt{5}$

Question
based on

Area and Collinear Points

Q.33 Area of the triangle with vertices (4, 4); (3, -2) and (3, -16) is -
 (A) 7 (B) 18 (C) 15
 (D) 27

Q.34 The Area of the triangle with vertices (1, $\pi/8$); (1, $5\pi/8$) and ($\sqrt{2}$, $3\pi/8$) is -
 (A) 2 (B) 1/2 (C) 1
 (D) 3/2

Q.35 If (5, -4) and (-3, 2) are two opposite vertices of a square then its area is -
 (A) 50 (B) 75 (C) 25 (D) 100

Q.36 The area of a triangle with vertices (3, 8); (-4, 2) and (5,-1) is -
 (A) 40.5 (B) 36.5 (C) 3.75 (D) 37.5

Q.37 For what value of k the points (k, 2 - 2k), (1 - k, 2k) and (-4 - k, 6 - 2k) are collinear ?
 (A) 1, -1/2 (B) 1, 1/2
 (C) -1, 1/2 (D) -1, -1/2

Q.38 The condition that three points (a, 0), (0, b) and (1, 1) are collinear is -
 (A) $\frac{1}{a} + \frac{1}{b} = 2$ (B) $\frac{1}{a} + \frac{1}{b} = 1$
 (C) $\frac{1}{a} + \frac{1}{b} = 0$ (D) $\frac{1}{a} = \frac{1}{b}$

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Q.39 Opposite vertex of a square are $(3, -4)$ and $(-5, 2)$ then area of square is -
 (A) 25 (B) 50
 (C) 75 (D) 100

Q.40 The area of the triangle formed by the points $(a, b + c)$, $(b, c + a)$, $(c, a + b)$ is -
 (A) $a^2 + b^2 + c^2$ (B) abc
 (C) $ab + bc + ca$ (D) 0

Q.41 If D, E, F are mid points of the sides AB, BC and CA of a triangle formed by the points $A(5, -1)$, $B(-7, 6)$ and $C(1, 3)$, then area of $\triangle DEF$ is -
 (A) $2/5$ (B) $5/2$
 (C) 5 (D) 10

Q.42 The area of a quadrilateral constructed by lines $|x| + |y| = 1$ is -
 (A) 4 (B) 3 (C) 2 (D) 1

LEVEL- 1

Q.No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	C	C	B	C	D	C	C	C	C	A	C	B	B	C	B	B	D	A	C	C
Q.No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	C	B	B	A	C	A	A	C	C	C	D	D	A	B	A	D	C	B	B	D
Q.No.	41	42																		
Ans.	B	C																		



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LEVEL 2

Question based on Slope of a Line & Different forms of Equation of Straight Line

- Q.1** The angle made by the line joining the points $(1, 0)$ and $(-2, \sqrt{3})$ with x axis is -
(A) 120° (B) 60° (C) 150° (D) 135°
- Q.2** If $A(2,3)$, $B(3,1)$ and $C(5,3)$ are three points, then the slope of the line passing through A and bisecting BC is -
(A) $1/2$ (B) -2 (C) $-1/2$ (D) 2
- Q.3** If the vertices of a triangle have integral coordinates, then the triangle is -
(A) Isosceles (B) Never equilateral
(C) Equilateral (D) None of these
- Q.4** The equation of a line passing through the point $(-3, 2)$ and parallel to x-axis is -
(A) $x - 3 = 0$ (B) $x + 3 = 0$
(C) $y - 2 = 0$ (D) $y + 2 = 0$
- Q.5** If the slope of a line is 2 and it cuts an intercept -4 on y-axis, then its equation will be -
(A) $y - 2x = 4$ (B) $x + 2y = 4$
(C) $y = 2x - 4$ (D) None of these
- Q.6** The equation of the line cutting of an intercept -3 from the y-axis and inclined at an angle $\tan^{-1} 3/5$ to the x axis is -
(A) $5y - 3x + 15 = 0$ (B) $5y - 3x = 15$
(C) $3y - 5x + 15 = 0$ (D) None of these
- Q.7** If the line $y = mx + c$ passes through the points $(2, 4)$ and $(3, -5)$, then -
(A) $m = -9$, $c = -22$ (B) $m = 9$, $c = 22$
(C) $m = -9$, $c = 22$ (D) $m = 9$, $c = -22$
- Q.8** The equation of the line inclined at an angle of 60° with x-axis and cutting y-axis at the point $(0, -2)$ is -
(A) $\sqrt{3}y = x - 2\sqrt{3}$ (B) $y = \sqrt{3}x - 2$
(C) $\sqrt{3}y = x + 2\sqrt{3}$ (D) $y = \sqrt{3}x + 2$
- Q.9** The equation of a line passing through the origin and the point $(a \cos \theta, a \sin \theta)$ is -
(A) $y = x \sin \theta$ (B) $y = x \tan \theta$
(C) $y = x \cos \theta$ (D) $y = x \cot \theta$
- Q.10** Slope of a line which cuts intercepts of equal lengths on the axes is -
(A) -1 (B) 2 (C) 0 (D) $\sqrt{3}$
- Q.11** The intercept made by line $x \cos \alpha + y \sin \alpha = a$ on y axis is -
(A) a (B) $a \operatorname{cosec} \alpha$
(C) $a \sec \alpha$ (D) $a \sin \alpha$
- Q.12** The equation of the straight line which passes through the point $(1, -2)$ and cuts off equal intercepts from axes will be -
(A) $x + y = 1$ (B) $x - y = 1$
(C) $x + y + 1 = 0$ (D) $x - y - 2 = 0$
- Q.13** The intercept made by a line on y-axis is double to the intercept made by it on x-axis. If it passes through $(1, 2)$ then its equation -
(A) $2x + y = 4$ (B) $2x + y + 4 = 0$
(C) $2x - y = 4$ (D) $2x - y + 4 = 0$
- Q.14** If the point $(5, 2)$ bisects the intercept of a line between the axes, then its equation is -
(A) $5x + 2y = 20$ (B) $2x + 5y = 20$
(C) $5x - 2y = 20$ (D) $2x - 5y = 20$
- Q.15** If the point $(3, -4)$ divides the line between the x-axis and y-axis in the ratio $2 : 3$ then the equation of the line will be -
(A) $2x + y = 10$ (B) $2x - y = 10$
(C) $x + 2y = 10$ (D) $x - 2y = 10$
- Q.16** The equation to a line passing through the point $(2, -3)$ and sum of whose intercept on the axes is equal to -2 is -
(A) $x + y + 2 = 0$ or $3x + 3y = 7$
(B) $x + y + 1 = 0$ or $3x - 2y = 12$
(C) $x + y + 3 = 0$ or $3x - 3y = 5$
(D) $x - y + 2 = 0$ or $3x + 2y = 12$

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- Q.17** The line $bx + ay = 3ab$ cuts the coordinate axes at A and B, then centroid of $\triangle OAB$ is -
 (A) (b, a) (B) (a, b)
 (C) $(a/3, b/3)$ (D) $(3a, 3b)$

- Q.18** The area of the triangle formed by the lines $x = 0$, $y = 0$ and $x/a + y/b = 1$ is -
 (A) ab (B) $ab/2$
 (C) $2ab$ (D) $ab/3$

- Q.19** The equations of the lines on which the perpendiculars from the origin make 30° angle with x-axis and which form a triangle of area $\frac{50}{\sqrt{3}}$ with axes, are -

- (A) $x \pm \sqrt{3}y - 10 = 0$
 (B) $\sqrt{3}x + y \pm 10 = 0$
 (C) $x + \sqrt{3}y \pm 10 = 0$
 (D) None of these

- Q.20** If a perpendicular drawn from the origin on any line makes an angle 60° with x axis. If the line makes a triangle with axes whose area is $54\sqrt{3}$ square units, then its equation is -

- (A) $x + \sqrt{3}y = 18$
 (B) $\sqrt{3}x + y + 18 = 0$
 (C) $\sqrt{3}x + y = 18$
 (D) None of these

- Q.21** For a variable line $x/a + y/b = 1$, $a + b = 10$, the locus of mid point of the intercept of this line between coordinate axes is -
 (A) $10x + 5y = 1$ (B) $x + y = 10$
 (C) $x + y = 5$ (D) $5x + 10y = 1$

- Q.22** If a line passes through the point $P(1,2)$ makes an angle of 45° with the x-axis and meets the line $x + 2y - 7 = 0$ in Q, then PQ equals -
 (A) $\frac{2\sqrt{2}}{3}$ (B) $\frac{3\sqrt{2}}{2}$
 (C) $\sqrt{3}$ (D) $\sqrt{2}$

- Q.23** A line passes through the point $(1, 2)$ and makes 60° angle with x axis. A point on this line at a distance 3 from the point $(1, 2)$ is -
 (A) $(-5/2, 2 - 3\sqrt{3}/2)$ (B) $(3/2, 2 + 3\sqrt{3}/2)$
 (C) $(5/2, 2 + 3\sqrt{3}/2)$ (D) None of these

- Q.24** If the points $(1, 3)$ and $(5, 1)$ are two opposite vertices of a rectangle and the other two vertices lie on the line $y = 2x + c$, then the value of c is -
 (A) 4 (B) -4
 (C) 2 (D) None of these

Question
based on

Angle between two Straight Lines

- Q.25** The angle between the lines $y - x + 5 = 0$ and $\sqrt{3}x - y + 7 = 0$ is -
 (A) 15° (B) 60° (C) 45° (D) 75°

- Q.26** The angle between the lines $2x + 3y = 5$ and $3x - 2y = 7$ is -
 (A) 45° (B) 30° (C) 60°

(D) 90°

- Q.27** The angle between the lines $2x - y + 5 = 0$ and $3x + y + 4 = 0$ is -
 (A) 30° (B) 90° (C) 45° (D) 60°

- Q.28** The obtuse angle between the line $y = -2$ and $y = x + 2$ is -
 (A) 120° (B) 135°
 (C) 150° (D) 160°

- Q.29** The acute angle between the lines $y = 3$ and $y = \sqrt{3}x + 9$ is -
 (A) 30° (B) 60°
 (C) 45° (D) 90°

- Q.30** Orthocenter of the triangle whose sides are given by $4x - 7y + 10 = 0$, $x + y - 5 = 0$ & $7x + 4y - 15 = 0$ is -
 (A) $(-1, -2)$ (B) $(1, -2)$
 (C) $(-1, 2)$ (D) $(1, 2)$

- Q.31** The angle between the lines $x - \sqrt{3}y + 5 = 0$ and y-axis is -
 (A) 90° (B) 60° (C) 30° (D) 45°

- Q.32** If the lines $mx + 2y + 1 = 0$ and $2x + 3y + 5 = 0$ are perpendicular then the value of m is -
 (A) 3 (B) -3 (C) $-1/3$ (D) $1/3$

- Q.33** If the line passing through the points $(4, 3)$ and $(2, \lambda)$ is perpendicular to the line $y = 2x + 3$, then λ is equal to -

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(A) 4
(C) 1

(B) -4
(D) -1

(C) $x/a + y/b = 3$

(D) $x/a + y/b + 2 = 0$

Q.34 The equation of line passing through (2, 3) and perpendicular to the line adjoining the points (-5, 6) and (-6, 5) is -

(A) $x + y + 5 = 0$ (B) $x - y + 5 = 0$
(C) $x - y - 5 = 0$ (D) $x + y - 5 = 0$

Q.35 The equation of perpendicular bisector of the line segment joining the points (1, 2) and (-2, 0) is -

(A) $5x + 2y = 1$ (B) $4x + 6y = 1$

(C) $6x + 4y = 1$ (D) None of these

Q.36 If the foot of the perpendicular from the origin to a straight line is at the point (3, -4). Then the equation of the line is -

(A) $3x - 4y = 25$ (B) $3x - 4y + 25 = 0$
(C) $4x + 3y - 25 = 0$ (D) $4x - 3y + 25 = 0$

Question
based on

Equation of Parallel and Perpendicular lines

Q.37 Equation of the line passing through the point (1, -1) and perpendicular to the line $2x - 3y = 5$ is -

(A) $3x + 2y - 1 = 0$ (B) $2x + 3y + 1 = 0$
(C) $3x + 2y - 3 = 0$ (D) $3x + 2y + 5 = 0$

Q.38 The equation of the line passing through the point (c, d) and parallel to the line $ax + by + c = 0$ is -

(A) $a(x + c) + b(y + d) = 0$
(B) $a(x + c) - b(y + d) = 0$
(C) $a(x - c) + b(y - d) = 0$
(D) None of these

Q.39 The equation of a line passing through the point (a, b) and perpendicular to the line $ax + by + c = 0$ is -

(A) $bx - ay + (a^2 - b^2) = 0$
(B) $bx - ay - (a^2 - b^2) = 0$
(C) $bx - ay = 0$
(D) None of these

Q.40 The line passes through (1, -2) and perpendicular to y-axis is -

(A) $x + 1 = 0$ (B) $x - 1 = 0$
(C) $y - 2 = 0$ (D) $y + 2 = 0$

Q.41 The equation of a line passing through (a, b) and parallel to the line $x/a + y/b = 1$ is -

(A) $x/a + y/b = 0$ (B) $x/a + y/b = 2$

Q.42 A line is perpendicular to $3x + y = 3$ and passes through a point (2, 2). Its y intercept is -

(A) $2/3$ (B) $1/3$ (C) 1 (D) $4/3$

Q.43 The equation of a line parallel to $2x - 3y = 4$ which makes with the axes a triangle of area 12 units, is -

(A) $3x + 2y = 12$ (B) $2x - 3y = 12$

(C) $2x - 3y = 6$ (D) $3x + 2y = 6$

Q.44 The equation of a line parallel to $x + 2y = 1$ and passing through the point of intersection of the lines $x - y = 4$ and $3x + y = 7$ is -

(A) $x + 2y = 5$ (B) $4x + 8y - 1 = 0$
(C) $4x + 8y + 1 = 0$ (D) None of these

Q.45 The straight line L is perpendicular to the line $5x - y = 1$. The area of the triangle formed by the line L and coordinate axes is 5. Then the equation of the line will be -

(A) $x + 5y = 5\sqrt{2}$ or $x + 5y = -5\sqrt{2}$
(B) $x - 5y = 5\sqrt{2}$ or $x - 5y = 5\sqrt{2}$
(C) $x + 4y = 5\sqrt{2}$ or $x - 2y = 5\sqrt{2}$
(D) $2x + 5y = 5\sqrt{2}$ or $x + 5y = 5\sqrt{2}$

Q.46 If (0, 0), (-2, 1) and (5, 2) are the vertices of a triangle, Then equation of line passing through its centroid and parallel to the line $x - 2y = 6$ is-

(A) $x - 2y = 1$
(B) $x + 2y + 1 = 0$
(C) $x - 2y = 0$
(D) $x - 2y + 1 = 0$

Q.47 The equation of the line which passes through $(a \cos^3\theta, a \sin^3\theta)$ and perpendicular to the line $x \sec\theta + y \operatorname{cosec}\theta = a$ is -

(A) $x \cos\theta + y \sin\theta = 2a \cos 2\theta$
(B) $x \sin\theta - y \cos\theta = 2a \sin 2\theta$
(C) $x \sin\theta + y \cos\theta = 2a \cos 2\theta$
(D) $x \cos\theta - y \sin\theta = a \cos 2\theta$

Question
based on

Equation of straight lines through (x_1, y_1) making an angle α with $y = mx + c$

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Q.48 The equation of the lines which passes through the point (3,-2) and are inclined at 60° to the line $\sqrt{3}x + y = 1$.

(A) $y + 2 = 0, \sqrt{3}x - y - 2 - 3\sqrt{3} = 0$

(B) $\sqrt{3}x - y - 2 - 3\sqrt{3} = 0$

(C) $x - 2 = 0, \sqrt{3}x - y + 2 + 3\sqrt{3} = 0$

(D) None of these

Q.49 (1, 2) is vertex of a square whose one diagonal is along the x - axis. The equations of sides passing through the given vertex are -

(A) $2x - y = 0, x + 2y + 5 = 0$

(B) $x - 2y + 3 = 0, 2x + y - 4 = 0$

(C) $x - y + 1 = 0, x + y - 3 = 0$

(D) None of these

Q.50 The equation of the lines which pass through the origin and are inclined at an angle $\tan^{-1} m$ to the line $y = mx + c$, are -

(A) $y = 0, 2mx + (1 - m^2)y = 0$

(B) $y = 0, 2mx + (m^2 - 1)y = 0$

(C) $x = 0, 2mx + (m^2 - 1)y = 0$

(D) None of these

LEVEL- 2

Qus.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Ans.	C	C	B	C	C	A	C	B	B	A	B	C	A	B	B	B	B	B	B	A
Qus.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Ans.	C	A	C	B	A	D	C	B	B	D	B	B	A	D	C	A	A	C	C	D
Qus.	41	42	43	44	45	46	47	48	49	50										
Ans.	B	D	B	B	A	D	D	A	C	B										