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# Exercise

## Vector

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## Exercise-1

(Objective Type: Single Correct)



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**Q 1.** If a vector  $2\hat{i} + 3\hat{j} + 8\hat{k}$  is perpendicular to the vector  $4\hat{j} - 4\hat{i} + \alpha\hat{k}$  then the value of  $\alpha$  is

- (a)  $1/2$                       (b)  $-1/2$                       (c)  $1$                       (d)  $-1$

**Q 2.** The position vectors of points A, B, C and D are

$$\mathbf{A} = 3\hat{i} + 4\hat{j} + 5\hat{k}, \mathbf{B} = 4\hat{i} + 5\hat{j} + 6\hat{k},$$

$$\mathbf{C} = 7\hat{i} + 9\hat{j} + 3\hat{k} \text{ and } \mathbf{D} = 4\hat{i} + 6\hat{j}$$

Then the displacement vectors **AB** and **CD** are -

- (A) perpendicular                      (B) parallel  
(C) anti-parallel                      (D) inclined at an angle of  $60^\circ$

**Q 3.** If  $\vec{A} = 3\hat{i} + 4\hat{j} + 5\hat{k}$ , then the component of  $\vec{A}$  along z-axis is :

- (A) 3                      (B) 4                      (C) 5                      (D)  $5\sqrt{2}$

**Q 4.** If  $\vec{a}$  is a vector and x is a non-zero scalar, then

- (A)  $x\vec{a}$  is a vector in the direction of  $\vec{a}$                       (B)  $x\vec{a}$  is a vector collinear to  $\vec{a}$   
(C)  $x\vec{a}$  and  $\vec{a}$  have independent directions (D) none of these.

**Q 5.** Two vector  $\vec{A}$  and  $\vec{B}$  have magnitude 3 each.  $\vec{A} \times \vec{B} = -5\hat{k} + 2\hat{i}$ . Find angle between A and B

- (a)  $\cos^{-1} \frac{\sqrt{29}}{9}$                       (b)  $\tan^{-1} \left( \frac{-5}{2} \right)$                       (c)  $\sin^{-1} \left( \frac{2}{5} \right)$                       (d)  $\sin^{-1} \left( \frac{\sqrt{29}}{9} \right)$

**Q 6.**  $\vec{A} = 3\hat{i} + 4\hat{j} + 2\hat{k}$ ,  $\vec{B} = 6\hat{i} - \hat{j} + 3\hat{k}$ . Find a vector parallel to  $\vec{A}$  whose magnitude is equal to that of  $\vec{B}$ .

- (a)  $\sqrt{\frac{46}{29}}(3\hat{i} + 4\hat{j} + 2\hat{k})$                       (b)  $\sqrt{\frac{46}{29}}(6\hat{i} - \hat{j} + 3\hat{k})$                       (c)  $\sqrt{\frac{29}{46}}(3\hat{i} + 4\hat{j} + 2\hat{k})$                       (d) none

**Q 7.** Vectors  $\vec{A} = \hat{i} + \hat{j} - 2\hat{k}$  and  $\vec{B} = 3\hat{i} + 3\hat{j} - 6\hat{k}$  are :

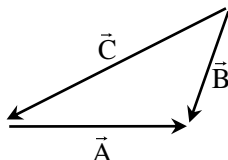
- (A) Parallel                      (B) Antiparallel  
(C) Perpendicular                      (D) at acute angle with each other





- Q 8.** A vector is not changed if  
 (A) it is slid parallel to itself (B) it is cross multiplied by a unit vector  
 (C) it is rotated through an arbitrary angle (D) it is multiplied by a scalar.

- Q 9.** For the figure –



- (A)  $\vec{A} + \vec{B} = \vec{C}$  (B)  $\vec{B} + \vec{C} = \vec{A}$  (C)  $\vec{C} + \vec{A} = \vec{B}$  (D)  $\vec{A} + \vec{B} + \vec{C} = 0$
- Q 10.** If  $a, b, c$  are three non-zero vectors such that  $\vec{a} + \vec{b} + \vec{c} = 0$  the value of  $\vec{a} \cdot \vec{b} + \vec{b} \cdot \vec{c} + \vec{c} \cdot \vec{a}$  is  
 (A) Less than zero (B) equal to zero (C) greater than zero (D) 3.
- Q 11.** Two forces of 4 dyne and 3 dyne act upon a body. The resultant force on the body can only be –  
 (A) more than 3 dynes (B) more than 4 dynes  
 (C) between 3 and 4 dynes (D) between 1 and 7 dynes
- Q 12.** Let there be two vectors  $\vec{a}$  and  $\vec{b}$  such that  $\vec{a} + \vec{b}$  is in same direction as  $\vec{a} - \vec{b}$ . Select the correct alternative.  
 (A)  $\vec{a} \times \vec{b} = 0$  (B)  $|\vec{a}| > |\vec{b}|$   
 (C) Both (1) and (2) must be simultaneously true (D)  $\vec{a} \cdot \vec{b} = 0$
- Q 13.** Which of the sets given below may represent the magnitudes of three vectors adding to zero?  
 (A) 2, 4, 8 (B) 4, 8, 16 (C) 1, 2, 1 (D) 0.5, 1, 2
- Q 14.** What displacement must be added to the displacement  $25\hat{i} - 6\hat{j}$  m to give a displacement of 7.0 m pointing in the x-direction?  
 (A)  $18\hat{i} - 6\hat{j}$  (B)  $32\hat{i} - 13\hat{j}$  (C)  $-18\hat{i} + 6\hat{j}$  (D)  $-25\hat{i} + 13\hat{j}$
- Q 15.** Two vectors have magnitudes 3 unit and 4 unit respectively. What should be the angle between them if the magnitude of the resultant is -  
 (i) 1 unit (ii) 5 unit (iii) 7 unit



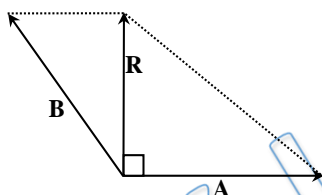


- (A)  $180^\circ, 90^\circ, 0^\circ$  (B)  $80^\circ, 70^\circ, 0^\circ$  (C)  $90^\circ, 170^\circ, 50^\circ$  (D) None of these

**Q 16.** If  $\vec{A} \cdot \vec{B} = \vec{B} \cdot \vec{C}$  then

- (a)  $\vec{A} = \vec{C}$  always (b)  $\vec{A} \neq \vec{C}$  always  
(c)  $\vec{A}$  may not be equal to  $\vec{C}$  (d) none of these

**Q 17.** The resultant of two vectors **A** and **B** is perpendicular to the vector **A** and its magnitude is equal to half the magnitude of vector **B**. The angle between **A** and **B** is -



- (A)  $120^\circ$  (B)  $150^\circ$  (C)  $135^\circ$  (D) None of these

**Q 18.** If  $|\vec{A} + \vec{B}| = |\vec{A} - \vec{B}|$  then angle between the vectors **A** and **B** is

- (a) 0 (b)  $\pi/3$  (c)  $\pi/2$  (d)  $\pi/4$

**Q 19.** In a given co-ordinate system, a vector quantity is given as  $\vec{A} = 3\hat{j} + 4\hat{k}$ . In another co-ordinate system chosen arbitrarily,  $\vec{A}$  can not be

- (A)  $5\hat{i}$  (B)  $5\hat{j}$  (C)  $\frac{5}{2}(\hat{i} + \sqrt{3}\hat{j})$  (D)  $5(\hat{i} + \hat{j})$

**Q 20.** If the angle between vector **a** and **b** is an acute angle, then the difference **a** – **b** is -

- (A) the main diagonal of the parallelogram (B) the minor diagonal of the parallelogram  
(C) any of the above (D) none of the above

**Q 21.** If  $|\vec{a}| = 11$ ,  $|\vec{b}| = 23$ ,  $|\vec{a} - \vec{b}| = 30$ , then  $|\vec{a} + \vec{b}|$  is :

- (A) 10 (B) 20 (C) 30 (D) 40

**Q 22.**  $\vec{F}_1$  acts due east and  $\vec{F}_2$  acts  $60^\circ$  north of east. Both have equal magnitude 40N each. What is the magnitude and direction of  $\vec{F}_1 + \vec{F}_2$  ?

- (A)  $20\sqrt{3}$  N,  $30^\circ$  east of north. (B)  $40\sqrt{3}$  N,  $30^\circ$  east of north.





(C)  $20\sqrt{3}$  N,  $30^\circ$  north of east.

(D)  $40\sqrt{3}$  N,  $30^\circ$  north of east.

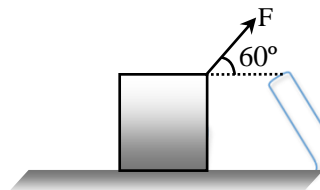
**Q 23.** There are three vectors  $\vec{P}$ ,  $\vec{Q}$  and  $\vec{R}$ . The angle between  $\vec{P}$  and  $\vec{Q}$  is  $60^\circ$  and  $\vec{R}$  is perpendicular to the plane containing the vectors  $\vec{P}$  and  $\vec{Q}$ . Consider the following relations.

(a)  $\vec{P} + \vec{Q} + \vec{R} = 0$     (b)  $\vec{P} \times \vec{Q} = \vec{R}$     (c)  $\vec{P} \times \vec{R} = \vec{Q}$

The possible relations are

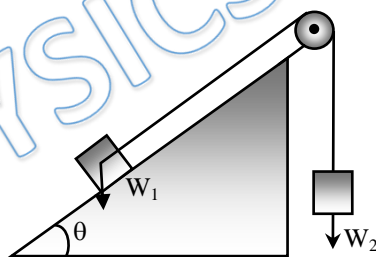
- (A) (a) & (b)    (B) (a) & (c)    (C) (b) & (c)    (D) Only (b)

**Q 24.** A child pulls a box with a force of 200 N at an angle of  $60^\circ$  above the horizontal. Then the horizontal and vertical components of the force are-



- (A) 100 N, 175 N    (B) 86.6 N, 100 N    (C) 100 N, 86.6 N    (D) 100 N, 0 N

**Q 25.** In the accompanying diagram  $W_1$  is 5 kg weight and  $W_2$  is 3 kg weight. If the component of  $W_1$  parallel to the incline is equal to  $W_2$ , then the angle  $\theta$  is nearly-



- (A)  $37^\circ$     (B)  $53^\circ$     (C)  $45^\circ$     (D) Nothing can be said

**Q 26.** The value of a unit vector in the direction of vector  $\vec{A} = 5\hat{i} - 12\hat{j}$ , is -

- (A)  $\hat{i}$     (B)  $\hat{j}$     (C)  $(\hat{i} + \hat{j})/13$     (D)  $(5\hat{i} - 12\hat{j})/13$

**Q 27.** The force determined by the vector  $\vec{F} = (\hat{i} - 8\hat{j} - 7\hat{k})$  is resolved along three mutually perpendicular directions, one of which is the direction of the vector  $\vec{a} =$





$2\hat{i} + 2\hat{j} + \hat{k}$ . Then the vector component of the force  $\vec{F}$  in the direction of the vector  $\vec{a}$  is :

- (A)  $-14\hat{i} - 14\hat{j} - 7\hat{k}$  (B)  $-\frac{14}{3}\hat{i} - \frac{14}{3}\hat{j} - \frac{7}{3}\hat{k}$  (C)  $-\frac{2}{3}\hat{i} - \frac{2}{3}\hat{j} - \frac{1}{3}\hat{k}$  (D) none of these

**Q 28.** The component of a vector is -

- (A) always less than its magnitude (B) always greater than its magnitude  
(C) always equal to its magnitude (D) none of these

**Q 29.** What is the resultant of three coplanar forces: 300 N at  $0^\circ$ , 400 N at  $30^\circ$  and 400 N at  $150^\circ$  ?

- (A) 500 N (B) 700 N (C) 1100N (D) 300 N

**Q 30.** X-component of  $\vec{a}$  is twice its Y-component. If the magnitude of the vector is  $5\sqrt{2}$  and it makes an angle of  $135^\circ$  with z-axis then the vector is :

- (A)  $(2\sqrt{3}, \sqrt{3}, -3)$  (B)  $(2\sqrt{6}, \sqrt{6}, -6)$  (C)  $(2\sqrt{5}, \sqrt{5}, -5)$  (D) none of these

**Q 31.** Given the three vectors,  $\vec{a} = -2\hat{i} + \hat{j} + \hat{k}$ ,  $\vec{b} = \hat{i} + 5\hat{j}$  &  $\vec{c} = 4\hat{i} + 4\hat{j} - 2\hat{k}$ . The projection of the vector  $3\vec{a} - 2\vec{b}$  on the vector  $\vec{c}$  is :

- (A) 11 (B) - 11 (C) 13 (D) none of these

**Q 32.** If  $\vec{e}_1$  &  $\vec{e}_2$  are two unit vectors and  $\theta$  is the angle between them, then  $\sin\left(\frac{\theta}{2}\right)$  is :

- (A)  $\frac{1}{2} |\vec{e}_1 + \vec{e}_2|$  (B)  $\frac{1}{2} |\vec{e}_1 - \vec{e}_2|$  (C)  $\frac{\vec{e}_1 \cdot \vec{e}_2}{2}$  (D)  $\frac{|\vec{e}_1 \times \vec{e}_2|}{2|\vec{e}_1||\vec{e}_2|}$

**Q 33.** The angle between  $\vec{a}$  and  $\vec{b}$  is  $0^\circ$  then angle between  $\vec{a}$  and  $-3\vec{b}$  is

- (A)  $\pi/3$  (B)  $\pi$  (C)  $\pi/6$  (D) none of these.

**Q 34.** A vector that is perpendicular to both the vectors  $\vec{a} = \hat{i} - 2\hat{j} + \hat{k}$  and  $\vec{b} = \hat{i} - \hat{j} + \hat{k}$  is

- (A)  $-\hat{i} + \hat{k}$  (B)  $-\hat{i} - 2\hat{j} + \hat{k}$  (C)  $\hat{i} - 2\hat{j} + \hat{k}$  (D)  $\hat{i} + \hat{k}$ .

**Q 35.** If  $\theta$  be the angle between the vectors  $\hat{i} + \hat{j}$  and  $2\hat{i} + 2\hat{k}$ , then  $\theta$  is

- (a) 0 (B)  $\pi/4$  (C)  $\pi/2$  (D)  $\pi/3$ .

**Q 36.** The sum, difference and cross product of two vectors  $\vec{A}$  and  $\vec{B}$  are mutually perpendicular if :

- (a)  $\vec{A}$  and  $\vec{B}$  are perpendicular to each other and  $|\vec{A}| = |\vec{B}|$





- (b)  $\vec{A}$  and  $\vec{B}$  are perpendicular to each other  
 (c)  $\vec{A}$  and  $\vec{B}$  are perpendicular but their magnitudes are arbitrary  
 (d)  $|\vec{A}| = |\vec{B}|$  and their directions are arbitrary

**Q 37.** Two vectors  $\mathbf{A}$  and  $\mathbf{B}$  lie in X-Y plane. The vector  $\mathbf{B}$  is perpendicular to vector  $\mathbf{A}$ . If  $\mathbf{A} = \hat{i} + \hat{j}$ , then  $\mathbf{B}$  may be -

- (A)  $\hat{i} - \hat{j}$  (B)  $-\hat{i} + \hat{j}$  (C)  $-2\hat{i} + 2\hat{j}$  (D) Any of the above

**Q 38.** The two vectors  $\mathbf{A} = 2\hat{i} + \hat{j} + 3\hat{k}$  and  $\mathbf{B} = 7\hat{i} - 5\hat{j} - 3\hat{k}$  are -

- (A) parallel (B) perpendicular (C) anti-parallel (D) none of these

**Q 39.** Two vectors  $\mathbf{P} = 2\hat{i} + b\hat{j} + 2\hat{k}$  and  $\mathbf{Q} = \hat{i} + \hat{j} + \hat{k}$  will be perpendicular if -

- (A)  $b = 0$  (B)  $b = 1$  (C)  $b = 2$  (D)  $b = -4$

**Q 40.** A vector perpendicular to  $(4\hat{i} - 3\hat{j})$  is -

- (A)  $4\hat{i} + 3\hat{j}$  (B)  $7\hat{k}$  (C)  $6\hat{i}$  (D)  $3\hat{i} - 4\hat{j}$

**Q 41.** Angle that the vector  $\mathbf{A} = 2\hat{i} + 3\hat{j}$  makes with y-axis is -

- (A)  $\tan^{-1} 3/2$  (B)  $\tan^{-1} 2/3$  (C)  $\sin^{-1} 2/3$  (D)  $\cos^{-1} 3/2$

**Q 42.** Projection of the vector  $2\hat{i} + 3\hat{j} + 2\hat{k}$  on the vector  $\hat{i} - 2\hat{j} + 3\hat{k}$  is

- (A)  $\frac{2}{\sqrt{14}}$  (B)  $\frac{1}{\sqrt{14}}$  (C)  $\frac{3}{\sqrt{17}}$  (D)  $\frac{3}{\sqrt{14}}$

**Q 43.** ABCDEF is a regular hexagon. What is the value of  $\vec{AB} + \vec{AC} + \vec{AD} + \vec{AE} + \vec{AF}$

O is the centre of hexagon ?

- (A) Zero (B)  $2\vec{AO}$  (C)  $4\vec{AO}$  (D)  $6\vec{AO}$







- Q 44.** Two forces,  $F_1$  and  $F_2$  are acting on a body. One force is double that of the other force and the resultant is equal to the greater force. Then the angle between the two forces is -
- (A)  $\cos^{-1}(1/2)$  (B)  $\cos^{-1}(-1/2)$  (C)  $\cos^{-1}(-1/4)$  (D)  $\cos^{-1}(1/4)$
- Q 45.** A three-dimensional vector has equal magnitude in all three direction. The magnitude of this vector is 30. Find the magnitude of component in each direction
- (A)  $5\sqrt{2}$  (B)  $10\sqrt{3}$   
(C) 20 (D) none of these
- Q 46.** If the magnitudes of the vectors **A**, **B** and **C** are 6, 8, 10 units respectively and if  $\mathbf{A} + \mathbf{B} = \mathbf{C}$ , then the angle between **A** and **C** is -
- (A)  $\pi/2$  (B)  $\cos(0.6)$  (C)  $\tan(0.75)$  (D)  $\pi/4$
- Q 47.** Angle between  $(\mathbf{P} + \mathbf{Q})$  and  $(\mathbf{P} - \mathbf{Q})$  will be-
- (A)  $0^\circ$  only  
(B)  $90^\circ$  only  
(C)  $180^\circ$  only  
(D) between  $0^\circ$  and  $180^\circ$  (both the values inclusive)
- Q 48.** What is the angle between  $\vec{P}$  and the resultant of  $(\vec{P} + \vec{Q})$  and  $(\vec{P} - \vec{Q})$ ?
- (a)  $\frac{\tan^{-1}(|\vec{P} - \vec{Q}|)}{|\vec{P} + \vec{Q}|}$  (b)  $\tan^{-1}(Q/P)$  (c)  $\tan^{-1}(P/Q)$  (d) zero
- Q 49.** If  $\mathbf{A} = \mathbf{B} + \mathbf{C}$  and magnitudes of **A**, **B** and **C** are 5, 4, and 3 units respectively, the angle between **A** and **C** is -
- (A)  $\sin^{-1}(3/4)$  (B)  $\cos^{-1}(4/5)$  (C)  $\cos^{-1}(3/5)$  (D)  $\pi/2$
- Q 50.** If  $(\vec{A} + \vec{B})$  is perpendicular to  $\vec{B}$  and  $(\vec{A} + 2\vec{B})$  is perpendicular to  $\vec{A}$ , then
- (A)  $A = \sqrt{2}B$  (B)  $A = 2B$  (C)  $2A = B$  (D)  $A = B$
- Q 51.** Out of addition, subtraction, dot product and cross product, the following operations are commutative -







- (A) dot and cross products (B) addition and subtraction  
(C) subtraction and cross product (D) addition and dot product

- Q 52.** If  $\vec{a}$  is perpendicular to  $\vec{b}$  and  $\vec{c}$ , then  
(A)  $\vec{a} \times (\vec{b} \times \vec{c}) = 1$  (B)  $\vec{a} \times (\vec{b} \times \vec{c}) = 0$  (C)  $\vec{a} \times (\vec{b} \times \vec{c}) = -1$  (D) None of these.
- Q 53.** If  $\vec{a} \times \vec{b} = \vec{a} \times \vec{c}$ ,  $\vec{a} \neq 0$ , then  
(A)  $\vec{b} = \vec{c} + \lambda \vec{a}$  (B)  $\vec{c} = \vec{a} + \lambda \vec{b}$  (C)  $\vec{a} = \vec{b} + \lambda \vec{c}$  (D) None of these.
- Q 54.** If the angle between the vectors  $\vec{A}$  and  $\vec{B}$  is  $\theta$ , the value of the product  $(\vec{B} \times \vec{A}) \cdot \vec{A}$  is equal to:  
(A)  $BA^2 \cos \theta$  (B)  $BA^2 \sin \theta$  (C)  $BA^2 \sin \theta \cos \theta$  (D) zero
- Q 55.** If  $\vec{a} \cdot \vec{b} = \vec{a} \cdot \vec{c}$  and  $\vec{a} \times \vec{b} = \vec{a} \times \vec{c}$ , then  
(A) either  $\vec{a} = \vec{0}$  or  $\vec{b} = \vec{c}$  (B)  $\vec{a}$  is parallel to  $(\vec{b} - \vec{c})$   
(C)  $\vec{a}$  is perpendicular to  $(\vec{b} - \vec{c})$  (D) none of these.
- Q 56.** If  $\theta$  is the angle between vectors  $\vec{a}$  and  $\vec{b}$ , and  $|\vec{a} \times \vec{b}| = \vec{a} \cdot \vec{b}$ , then  $\theta$  is equal to  
(A)  $0^\circ$  (B)  $180^\circ$  (C)  $135^\circ$  (D)  $45^\circ$
- Q 57.**  $(\vec{a} - \vec{b}) \times (\vec{a} + \vec{b})$  is equal to  
(A) 0 (B)  $\vec{a} \times \vec{b}$  (C)  $2(\vec{a} \times \vec{b})$  (D)  $|\vec{a}|^2 + |\vec{b}|^2$ .
- Q 58.** A parallelogram is formed with  $\vec{a}$  and  $\vec{b}$  as the sides. Let  $\vec{d}_1$  and  $\vec{d}_2$  be the diagonals of the parallelogram then  $a^2 + b^2 =$   
(a)  $(d_1^2 + d_2^2)/2$  (b)  $(d_1^2 - d_2^2)/2$  (c)  $d_1^2 + d_2^2$  (d)  $d_1^2 - d_2^2$
- Q 59.** The linear velocity of a rotating body is given by  $\vec{v} = \vec{\omega} \times \vec{r}$ , where  $\vec{\omega}$  is the angular velocity and  $\vec{r}$  is the radius vector. The angular velocity of a body  $\vec{\omega} = \hat{i} - 2\hat{j} + 2\hat{k}$  and their radius vector  $\vec{r} = 4\hat{j} - 3\hat{k}$ ,  $|\vec{v}|$  is -  
(A)  $\sqrt{29}$  units (B) 31 units (C)  $\sqrt{37}$  (D)  $\sqrt{41}$  units
- Q 60.** Which of the following sets of displacements might be capable of returning a car to its starting point ?  
(A) 4, 6, 8 and 15 km





(B) 10, 30, 50 and 120 km

(C) 5, 10, 30 and 50 km

(D) 50, 50, 75 and 200 km

**Q 61.** The vector  $\vec{a} \times (\vec{b} \times \vec{a})$  is :

(A) perpendicular to  $\vec{a}$

(B) perpendicular to  $\vec{b}$

(C) null vector

(D) perpendicular to both  $\vec{a}$  and  $\vec{b}$ .

**Q 62.** The value of  $\hat{i} \times (\vec{r} \times \hat{i}) + \hat{j} \times (\vec{r} \times \hat{j}) + \hat{k} \times (\vec{r} \times \hat{k})$  is :

(A)  $\vec{r}$

(B)  $2\vec{r}$

(C)  $3\vec{r}$

(D)  $4\vec{r}$

**Q 63.**  $\vec{A} \cdot (\vec{A} \times \vec{B})$  is

(A) = 0

(B) > 0

(C) < 0

(D) None of these.

**Q 64.** The magnitude of the vector product of two vectors  $\vec{A}$  and  $\vec{B}$  may be -

(a) Greater than AB

(b) Equal to AB

(c) Less than AB

(d) Equal to Zero

(A) a, b, c

(B) b, c, d

(C) a, c, d

(D) a, b, d





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## Answer Key

Q.1) B	Q.2) C	Q.3) C	Q.4) B	Q.5) D
Q.6) A	Q.7) A	Q.8) A	Q.9) C	Q.10) B
Q.11) D	Q.12) C	Q.13) C	Q.14) C	Q.15) A
Q.16) C	Q.17) B	Q.18) C	Q.19) D	Q.20) B
Q.21) B	Q.22) D	Q.23) D	Q.24) A	Q.25) A
Q.26) D	Q.27) B	Q.28) D	Q.29) A	Q.30) C
Q.31) B	Q.32) B	Q.33) B	Q.34) A	Q.35) D
Q.36) D	Q.37) D	Q.38) B	Q.39) D	Q.40) C
Q.41) B	Q.42) A	Q.43) D	Q.44) C	Q.45) B
Q.46) B	Q.47) D	Q.48) D	Q.49) C	Q.50) A
Q.51) D	Q.52) B	Q.53) A	Q.54) D	Q.55) A
Q.56) D	Q.57) C	Q.58) A	Q.59) A	Q.60) A
Q.61) A	Q.62) B	Q.63) A	Q.64) B	



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