



(iii) Express the vector  $\vec{a} = 5\hat{i} - 2\hat{j} + 5\hat{k}$  as sum of two vectors such that one is parallel to the vector  $\vec{b} = 3\hat{i} + \hat{k}$  and the other is perpendicular to  $\vec{b}$ .

8. If  $\vec{a} = \vec{0}$  or,  $\vec{b} = \vec{0}$ , then  $\vec{a} \cdot \vec{b} = 0$ ; show by an example that the converse of this statement is not always true. [NCERT]
9. If  $\vec{a} = 3\hat{i} + 4\hat{j} - \hat{k}$ ,  $\vec{b} = \hat{i} - 3\hat{j} + 4\hat{k}$  and  $\vec{c} = 5\hat{i} - 6\hat{j} + 4\hat{k}$ , find the vector  $\vec{r}$  which is perpendicular to both  $\vec{a}$  and  $\vec{b}$  and

which satisfies the relation  $\vec{r} \cdot \vec{c} = 91$ .

10. Let  $\vec{a}$ ,  $\vec{b}$ ,  $\vec{c}$  be the positions vectors of the vertices of a triangle; prove that the area of the triangle is  $\frac{1}{2}|\vec{a} \times \vec{b} + \vec{b} \times \vec{c} + \vec{c} \times \vec{a}|$ .
11. Given  $\vec{a} = 4\hat{i} + 5\hat{j} - \hat{k}$ ,  $\vec{b} = \hat{i} - 4\hat{j} + 5\hat{k}$ . If  $|\vec{c}| = 21$  and  $\vec{c}$  is perpendicular to  $\vec{a}$  and  $\vec{b}$ , find in component form the vector  $\vec{c}$ .



## ANSWERS 2A

## Multiple Choice Type

1. (c)      2. (b)      3. (a)      4. (c)  
5. (b)      6. (c)      7. (a)      8. (c)

## Very Short Answer Type

2. (i)  $1, \frac{\pi}{3}$       (ii)  $3, \cos^{-1}\left(\frac{1}{\sqrt{3}}\right)$   
(iii)  $4, \cos^{-1}\left(\frac{4}{\sqrt{179}}\right)$       (iv)  $0, \frac{\pi}{2}$
5. (i)  $m = 1$       (ii)  $m = -10$       (iii)  $m = 2$
7.  $\lambda = \pm 2\sqrt{21}$       8.  $\frac{\pi}{2}$
9. (i)  $\frac{1}{\sqrt{2}}(\hat{i} + \hat{k})$       (ii)  $-\frac{1}{\sqrt{3}}(\hat{i} - \hat{j} - \hat{k})$
10.  $2, \frac{2}{3}(\hat{i} + 2\hat{j} + 2\hat{k})$       11. (i) 2 unit      (ii)  $\frac{5\sqrt{6}}{3}$  unit
12. (i)  $\frac{\pi}{4}$       (ii)  $\frac{\pi}{18}$       (iii)  $\sqrt{2}$
14. (i)  $\frac{\pi}{6}$       (ii)  $\frac{\pi}{18}$       (iii)  $\frac{\pi}{4}$       (iv)  $\frac{\pi}{3}$
15. (i)  $p = -6, q = 3$       (ii)  $p = \frac{27}{2}$       (iii)  $\lambda = -3$
16. (i)  $\sqrt{42}$  sq unit      (ii) 18 sq unit  
(iii)  $5\sqrt{3}$  sq unit
17. (i)  $\frac{2\sqrt{6}}{2}$  sq unit      (ii)  $\sqrt{\frac{21}{2}}$  sq unit  
(iii)  $\frac{1}{2}\sqrt{21}$  sq unit

## Short Answer Type

1. 0      2. (i)  $\frac{1}{2}$  unit      (ii)  $\lambda = 1$

3.  $\lambda = \pm \frac{6}{5}$       5.  $\vec{r} = 3\hat{i} - \hat{k}$

7. (i)  $p = \frac{3}{2}$       (ii)  $\frac{31}{50}$

12. (i)  $\hat{i} + 2\hat{j} + 2\hat{k}$       (ii)  $-7\hat{i} - 5\hat{j} + 4\hat{k}$

(iii)  $-17\hat{i} - 7\hat{j} + 2\hat{k}$       (iv)  $3\hat{i} + 6\hat{j} - 3\hat{k}$

(v)  $\frac{\pi}{4}$       (vi)  $\sqrt{\frac{8}{3}}$

15. (i)  $\frac{1}{\sqrt{3}}(\hat{i} - \hat{j} + \hat{k})$       (ii)  $\frac{1}{\sqrt{65}}(2\hat{i} + 5\hat{j} + 6\hat{k})$

(iii)  $\frac{1}{\sqrt{3}}(\hat{i} - \hat{j} - \hat{k})$

16.  $\frac{5}{\sqrt{3}}(\hat{i} + \hat{j} + \hat{k})$       17.  $\frac{11}{24}$

18. (iv) Either  $|\vec{a}| = 0$  or  $|\vec{b}| = 0$       20. -1

21.  $\frac{1}{2}\sqrt{61}$  sq unit

22. (i)  $\frac{1}{2\sqrt{10}}(-\hat{i} - 6\hat{j} - 5\hat{k})$

(ii)  $\frac{1}{3}(2\hat{i} - 2\hat{j} - \hat{k})$  or,  $\frac{1}{3}(-2\hat{i} + 2\hat{j} + \hat{k})$

## Long Answer Type

3.  $\frac{\pi}{3}$       4.  $\mu = -\frac{21}{2}$       5.  $\lambda = 1$       6.  $\lambda = 8$

7. (i)  $64\hat{i} - 2\hat{j} - 28\hat{k}$       (ii)  $\pi$

(iii)  $\vec{a} = 5\hat{i} - 2\hat{j} + 5\hat{k} = 2(3\hat{i} + \hat{k}) + (-\hat{i} - 2\hat{j} + 3\hat{k})$

8. If  $\vec{a} = 2\hat{i} + \hat{j} + \hat{k}$  and  $\vec{b} = \hat{i} + \hat{j} - 3\hat{k}$  then  $\vec{a} \cdot \vec{b} = 0$  when  $\vec{a} \neq \vec{0}$  and  $\vec{b} \neq \vec{0}$

9.  $15(\hat{i} - \hat{j} - \hat{k})$

11.  $\pm \frac{21}{\sqrt{3}}(\hat{i} - \hat{j} - \hat{k})$

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**Mike Jess**



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