

# TOP 155 PHYSICS PREVIOUS YEAR QUESTIONS IN HINDI

## Description

### TOP 155 PHYSICS PREVIOUS YEAR QUESTIONS IN HINDI

1.  $\vec{a} = 3\hat{i} + 4\hat{j}$  and  $\vec{b} = 4\hat{i} + 3\hat{j}$  are two vectors. Find the angle between them.  
**Ans-**  $\cos^{-1} \frac{7}{5}$
2. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the angle between the velocity and acceleration vectors.  
**Ans-**  $90^\circ$
3. A particle starts from rest and moves with constant acceleration  $a$ . Find the ratio of the distance covered in the first  $t$  seconds to the distance covered in the next  $t$  seconds.  
**Ans-**  $1:3$
4. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over one complete revolution.  
**Ans-** Average velocity is 0, average acceleration is  $\frac{v^2}{r}$ .
5. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over half a revolution.  
**Ans-** Average velocity is  $2r$ , average acceleration is  $\frac{v^2}{r}$ .
6. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a quarter revolution.  
**Ans-** Average velocity is  $\sqrt{2}r$ , average acceleration is  $\frac{v^2}{r}$ .
7. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over an eighth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{2}r$ , average acceleration is  $\frac{v^2}{r}$ .
8. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a sixteenth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{4}r$ , average acceleration is  $\frac{v^2}{r}$ .
9. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a thirty-second of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{8}r$ , average acceleration is  $\frac{v^2}{r}$ .
10. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a sixty-fourth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{16}r$ , average acceleration is  $\frac{v^2}{r}$ .
11. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a hundred and twenty-eighth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{32}r$ , average acceleration is  $\frac{v^2}{r}$ .
12. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a two-hundred and fifty-sixth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{64}r$ , average acceleration is  $\frac{v^2}{r}$ .
13. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a five-hundred and twelve-th of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{128}r$ , average acceleration is  $\frac{v^2}{r}$ .
14. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a ten-thousand and twenty-fourth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{256}r$ , average acceleration is  $\frac{v^2}{r}$ .
15. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a twenty-thousand and forty-eighth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{512}r$ , average acceleration is  $\frac{v^2}{r}$ .
16. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a forty-thousand and ninety-sixth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{1024}r$ , average acceleration is  $\frac{v^2}{r}$ .
17. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a eighty-thousand and one-hundred and ninety-second of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{2048}r$ , average acceleration is  $\frac{v^2}{r}$ .
18. A particle moves in a circle of radius  $r$  with constant speed  $v$ . Find the average velocity and average acceleration over a one-hundred and sixty-fourth of a revolution.  
**Ans-** Average velocity is  $\frac{\sqrt{2}}{4096}r$ , average acceleration is  $\frac{v^2}{r}$ .



39. à¤@à¥?à¤ à¥?à¤@à¥?à¤?à¤° à¤?à¥? à¤!à¥•à¤µà¤³/à¤°à¤³/à¤ à¤?à¤;à¤, à¤?à¥? à¤@à¤³/à¤à¤ à¤?à¥? à¤?à¤³/à¤à¤à¥? à¤!à¥? **Ans- à¤?à¥?à¤ à¥?à¤? à¤?à¤³/à¤ à¤!à¤³/à¤à¤-**
40. à¤@à¥?à¤?à¤;à¤ à¥?à¤°à¥?à¤°à¥?à¤°à¥?à¤°à¥? à¤?à¤;à¤ à¤, à¥? à¤, à¤?à¤-à¤?à¤§à¤;à¤ à¤!à¥? **?Ans- à¤@à¥?à¤ à¤@ à¤?à¤³/à¤à¥¤**
41. à¤@à¥?à¤? à¤°à¤° à¤°à¤;à¤!4à¥? à¤°à¥•à¤, à¥•à¤à¤? à¤@à¥?à¤? à¤?à¤;à¤, à¤°à¥•à¤°à¤?à¤³/à¤° à¤?à¤³/à¤ à¤, à¤?à¤à¥•à¤°à¤° à¤!à¥?à¤à¤à¤³/à¤ à¤!à¥? **Ans- à¤, à¥•à¤à¥•à¤³/à¤°? à¤, à¤?à¤à¥•à¤°à¤°à¥¤**
42. à¤@à¥?à¤² à¤°à¤?à¤? à¤?à¥?à¤°-à¤?à¥?à¤° à¤, à¥? à¤!à¥?à¤? **Ans- à¤²à¤³/à¤à¤², à¤!à¤°à¤³/à¤, à¤°à¥?à¤²à¤³/à¤**
43. à¤@à¥•à¤?à¥•à¤à¤ à¤°à¥?à¤° à¤, à¥? à¤²à¤?à¤?à¥? à¤?à¥•à¤?à¤-à¤?à¥?à¤° à¤, à¥•à¤? à¤?à¤³/à¤ à¤ à¤? à¤-à¥?à¤?à¥?à¤²à¤;à¤? à¤ à¤? à¤?à¥? à¤, à¤³/à¤à¥¤ à¤?à¥?à¤°¤ à¤-à¤°à¤³/à¤à¤à¤³/à¤ à¤!à¥? **Ans- 18 à¤ à¤?à¤¶ à¤?à¤³/à¤**
44. à¤@à¥•à¤?à¥•à¤à¤ à¤°à¥?à¤° à¤, à¥? à¤°à¤;à¤²à¤?à¤-à¤;à¤ à¤à¤ à¤?à¥•à¤?à¤-à¤?à¥?à¤° à¤, à¥•à¤? à¤?à¤;à¤, à¤!à¤;à¤¶³/à¤ à¤@à¥?à¤? à¤?à¤;à¤?à¤à¥? à¤!à¥? **Ans- à¤?à¤à¥•à¤à¤à¤° à¤!à¤?à¥•à¤°à¤;à¤°¤ à¤!à¤;à¤¶³/à¤**
45. à¤@à¤³/à¤à¤?à¤?à¥•à¤°à¥?à¤°à¥?à¤° à¤?à¤³/à¤ à¤?à¤µà¤;à¤-à¥•à¤?à¤³/à¤°à¤? à¤?à¤;à¤, à¥? à¤@à¤³/à¤à¤°à¤³/à¤ à¤?à¤³/à¤à¤à¤³/à¤ à¤!à¥? **Ans- à¤?à¥•à¤°à¤³/à¤à¤°à¤@ à¤-à¥?à¤²**
46. à¤@à¤!à¤³/à¤à¤, à¤³/à¤à¤?à¤° à¤@à¥?à¤? à¤;à¥?à¤-à¥? à¤!à¥•à¤? à¤µà¤, à¥•à¤à¥•à¤?à¤? à¤?à¥? à¤, à¥•à¤°à¥¤à¤;à¤à¤à¤; à¤?à¤³/à¤à¤°à¥? à¤?à¥? à¤²à¤;à¤° à¤?à¤;à¤, à¤-à¤?à¤à¤à¥•à¤° à¤?à¤³/à¤ à¤°à¥•à¤°à¤°à¥?à¤? à¤?à¤;à¤;à¤-à¤³/à¤ à¤?à¤³/à¤à¤à¤³/à¤ à¤!à¥? **Ans- à¤, à¥?à¤°à¤³/à¤°**
47. à¤@à¤°à¥•à¤-à¥•à¤°à¥?à¤? à¤?à¥? à¤²à¤;à¤° à¤@à¤³/à¤à¤°à¤? à¤§à¥•à¤µà¤°à¤; à¤, à¥•à¤à¤° à¤?à¤;à¤à¤à¤°à¤³/à¤ à¤!à¥? **Ans- 60 à¤;à¥?à¤ à¥?à¤-à¤²**
48. à¤à¥?à¤?à¤?à¤°à¤° à¤?à¥? à¤ à¤§à¥•à¤°à¤°à¤° à¤?à¥? à¤µà¤;à¤?à¥•à¤?à¤³/à¤à¤° à¤?à¤³/à¤ à¤°à¤³/à¤à¤@à¤?à¥•à¤°à¤³/à¤ à¤!à¥? **Ans- à¤, à¥?à¤ à¥•à¤@à¥?à¤²à¥?à¤?à¥?à¥¤**
49. à¤à¥?à¤?à¤?à¤°à¤° à¤?à¥? à¤à¤à¥?à¤µà¥•à¤°à¤à¤³/à¤ à¤?à¤;à¤, à¥?à¥? à¤!à¥•à¤µà¤³/à¤°à¤³/à¤ à¤@à¤³/à¤à¤°à¥? à¤?à¤³/à¤à¤à¤à¥? à¤!à¥? **Ans- à¤, à¤;à¤, à¥•à¤@à¥?à¤?à¥•à¤°à¤³/à¤à¤«**
50. à¤à¤³/à¤à¤° à¤?à¥? à¤?à¤?à¤?à¤°à¤° à¤?à¤³/à¤ à¤?à¤µà¤;à¤-à¥•à¤?à¤³/à¤°à¤? à¤?à¥?à¤° à¤°à¥¤à¤³/à¤ **Ans- à¤?à¥?à¤@à¥•à¤, à¤µà¤³/à¤à¤?à¥¤**
51. à¤-à¥•à¤²à¤³/à¤à¤, à¥? à¤°à¤³/à¤à¤, à¥•à¤?à¤² à¤?à¤³/à¤ à¤, à¤?à¤-à¤?à¤§ à¤?à¤;à¤, à¤@à¤¶à¥?à¤°à¤° à¤, à¥? à¤!à¥? **?Ans- à¤?à¤°à¤°à¤³/à¤ à¤?à¤°à¤°à¥? à¤µà¤³/à¤à¤²à¥? à¤@à¤¶à¥?à¤°à¤° à¤, à¥?à¥¤**
52. à¤-à¥?à¤²à¥?à¤@à¥?à¤?à¤° à¤@à¤³/à¤à¤°à¤° à¤?à¥? à¤°à¤? à¤°à¥•à¤?à¥•à¤à¤;à¤ à¤!à¥¤ **Ans- à¤?à¤°à¥•à¤@à¥?à¤° à¤µà¤;à¤?à¤;à¤°à¤°à¤° à¤?à¥?**
53. à¤-à¥?à¤² à¤°à¥?à¤?à¤?à¤? à¤°à¥?à¤° à¤?à¤³/à¤ à¤?à¤µà¤;à¤-à¥•à¤?à¤³/à¤°à¤? à¤?à¥?à¤° à¤°à¥¤à¤³/à¤ **Ans- à¤µà¥?à¤°à¥? à¤-à¥•à¤°à¤°à¤!à¤°à¥•à¤,**
54. à¤-à¥?à¤°à¥?à¤@à¥?à¤?à¤° à¤?à¤³/à¤ à¤?à¤µà¤;à¤-à¥•à¤?à¤³/à¤° à¤?à¤;à¤, à¤°à¥? à¤?à¤;à¤-à¤³/à¤ à¤°à¥¤à¤³/à¤ **Ans- à¤°à¤µà¤³/à¤à¤?à¤?à¥?à¤²à¤;à¤, à¥•à¤à¤à¤³/à¤ à¤?à¥?à¤°à¤;à¤, à¥?à¤²à¥?à¤²à¥?**
55. à¤-à¤;à¤?à¤²à¥? à¤?à¥? à¤-à¤²à¥•à¤-à¤-à¤?à¤³/à¤ à¤?à¤µà¤;à¤-à¥•à¤?à¤³/à¤° à¤?à¤;à¤, à¤°à¥? à¤?à¤;à¤-à¤³/à¤ à¤°à¥¤à¤³/à¤ **Ans- à¤°à¥¤à¤³/à¤@à¤, à¤ à¤²à¥•à¤µà¤³/à¤ à¤°à¤;à¤;à¤, à¤°**
56. à¤-à¤³/à¤à¤°à¥• à¤@à¥?à¤? à¤§à¥•à¤µà¤°à¤; à¤?à¤³/à¤ à¤µà¥?à¤? à¤?à¤;à¤à¤à¤°à¤³/à¤ à¤!à¥?à¤à¤à¤³/à¤ à¤!à¥¤ **Ans- à¤²à¤?à¤à¤à¤? 330 à¤@à¥?à¤?à¤° à¤°à¥•à¤°à¤à¤à¤; à¤, à¥?à¤?à¤?à¤;**
57. à¤-à¤³/à¤à¤°à¥• à¤?à¥? à¤?à¤à¤;à¤ à¤?à¤;à¤, à¤°à¥? à¤!à¥•à¤µà¤³/à¤°à¤³/à¤ à¤@à¤³/à¤à¤°à¥? à¤?à¤³/à¤à¤à¤à¥? à¤!à¥? **Ans- à¤°à¤°à¥?à¤@à¥?à¤@à¥?à¤?à¤°**
58. à¤-à¤² à¤?à¤³/à¤ à¤°à¤, à¤?à¤? à¤°à¥?à¤°à¤;à¤? à¤?à¥•à¤°à¤³/à¤ à¤!à¥¤ **Ans- à¤°à¥•à¤°à¥?à¤?à¤°**
59. à¤-à¤°à¥•à¤« à¤?à¥? à¤!à¥? à¤?à¥•à¤?à¤;à¤!4à¥?à¤? à¤?à¥? à¤?à¤°à¤, à¤@à¥?à¤? à¤!à¤-à¤³/à¤à¤°à¥? à¤°à¤° à¤?à¥•à¤?à¤;à¤!4à¥? à¤?à¤°à¤, à¤@à¥?à¤? à¤?à¤;à¤°à¤? à¤?à¤³/à¤à¤à¤à¥? à¤!à¥?à¤? **Ans- à¤?à¥•à¤°à¥?à¤?à¤?à¤; à¤!à¤³/à¤à¤- à¤ à¤§à¤;à¤? à¤°à¥?à¤°à¥? à¤, à¥? à¤-à¤°à¥•à¤« à¤?à¤³/à¤ à¤?à¤²à¤°à¤³/à¤à¤?à¤? à¤?à¤? à¤?à¤³/à¤à¤à¤³/à¤ à¤!à¥?**
60. à¤«à¥?à¤!à¥?à¤@à¥?à¤?à¤° à¤?à¤³/à¤ à¤?à¤°à¤°à¥?à¤? à¤?à¤;à¤, à¤°à¤³/à¤à¤¶à¤; à¤?à¥? à¤@à¤³/à¤à¤°à¥? à¤@à¥?à¤? à¤?à¤;à¤-à¤³/à¤ à¤?à¤³/à¤à¤à¤à¥? à¤!à¥? **?Ans- à¤, à¤@à¥•à¤!à¥•à¤° à¤?à¥? à¤?à¤°à¤°à¤³/à¤à¤?à¥¤**
61. à¤«à¥?à¤!à¥? à¤@à¥?à¤?à¤° à¤?à¤³/à¤ à¤?à¤°à¤°à¥?à¤? à¤?à¥•à¤°à¤³/à¤ à¤@à¤³/à¤à¤°à¥? à¤@à¥?à¤?à¤?









147.  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  Ans-  $\frac{1}{6}$
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151.  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  Ans-  $\frac{1}{6}$
152.  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  Ans-  $\frac{1}{6}$
153. 1  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  Ans- 159
154. 1  $\frac{1}{2} \times \frac{1}{3} = \frac{1}{6}$  Ans- 4.2A?103  $\frac{1}{6}$

## Category

1. Previous Years Questions (Physics)

## Tags

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