

11. The circumference subtends an angle

- A. π radian
B. 2π radian
C. $\pi/2$ radian
D. 4π radian

Answer: Option B

12. The relation between linear and angular acceleration is

- A. $a = \alpha \times r$
B. $a = r \times \alpha$
C. $a = \alpha \times r$
D. $r = a \times \alpha$

Answer: Option c

13. When a body is whirled in a horizontal circle by means of a string the centripetal force is supplied by

- A. mass of a body
B. velocity of body
C. tension in the string
D. centripetal acceleration

Answer: Option c

14. Centripetal force performs

- A. maximum work
B. minimum work
C. negative work
D. no work

Answer: Option D

15. When a body moves in a circle of radius r with linear speed V its centripetal force is

- A. mV/r^2
B. mV/r
C. mV^2/r
D. mV^2/r^2

Answer: Option c
