

ECAT Physics Chapter 5 Circular Motion Online Test

C-	Overtions	Anguaga Chaine
Sr	Questions	Answers Choice
1	A flywheel accelerates from rest to an angular velocity of 7 rad/sec in 7 seconds. Its average acceleration will be:	A. 49 rad/sec ² B. 1 rad/sec ² C. 0.16 rev/sec ² D. Both A and C E. Both B and C
2	The net force acting on a 100 kg man standing in an elevator accelerating downward with a $= 9.8 \text{ m sec}^{-2}$ comes out to be	A. 980 N B. 580 N C. 1380 N D. Zero
3	A stone tied to the end of a 20 cm long string is whirled in a horizontal circle. If centripetal acceleration is 9.8 m/sec ² , then its angular velocity is rad/sec is:	A. 22/7 B. 7 C. 14 D. 21
4	Moment of linear momentum is called.	A. Moment arm B. Moment of inertia C. Inertia D. Angular momentum
5	The number of countries who manage the largest satellite system is:	A. 3 B. 24 C. 126 D. 200
6	Radian is defined as the angle subtended at the center of a circle by an arc of:	A. Length equal to its diameter B. Length equal to its radius C. Any length D. None of these
7	Circular motion is an example of motion in:	A. One dimension B. Two dimensions C. Three dimensions D. None of these
8	Moment of inertia depends upon:	A. Mass B. Selection of axis of rotation C. Both of them D. None of these
9	A point on the rim of a wheel moves 0.2 m when the wheel turns through an angle of 14.3 degrees. The radius of the wheel is	A. 0.05 m B. 0.08 cm C. 0.8 m D. 0.008 m
10	A rotating body tends to be slower, when its angular acceleration is:	A. Positive B. Negative C. Zero D. Infinity
11	One radian is:	A. Greater than one degree B. Less than one degree C. Equal to one degree D. None of them
12	The number of "Earth Stations" which transmit signals to satellites and receive signals fro them are	A. 3 B. 24 C. 126 D. 200
		A. <font face="arial, sans, sans-
serif">

A. 90<span style="font-size: 10.5pt; line-height: 107%; font-family: Arial, sans-serif;

background-image: initial; background-position: initial; background-size: initial; backgroundrepeat: initial; backgroundattachment: initial; background-origin: initial; background-clip: initial;">° to the axis of rotation

13	Conventional the angular Velocity is Directed at an angle of:	inne-neign: 107%; ront-ramily: Arial, sans-serif; background-image: initial; background-size: initial; background-repeat: initial; background-attachment: initial; background-origin: initial; background-clip: initial;">° to the axis of rotation C. 0
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