MCAT

FULL LENGTH PAPER-7
AS PER UNS PATTERN

Total MCQs: 220 Max. Marks: 1100 Minute

Time Allowed: 150

PHYSICS

- P²
- Q.1 If P is the momentum of an object of mass m, the expression m has base units identical to
 - A) Energy C) Power B) Force D) Velocity
- Q.2 The velocity of a particle is given in terms of time 't' by the equation v = at. The dimensions of a are
 - A) L² C) LT² B) LT⁰ D) L
- Q.3 A uniform rod of weight 2 N is pivoted at 70 cm mark. When the rod is horizontal, what is the resultant torque about the pivot?



- A) zero C) 1.1 N m B) 1.9 N m D) 1.5 N m
- Q.4 Torque is _____ of moment arm and force A) Scalar product C) Product
- B) Vector product

 D) None of these

 A steel ball of mass m falls in a viscous liquid with a terminal velocity V. Another steel ball of mass 64m will fall through the same liquid with a terminal velocity
 - A) V B) 4V C) 8V D) 16V
- Q.6 A ball of mass m and radius r is released in a viscous medium of neglibgible density.

 Its terminal velocity is proportional to

/r		r
A) Vm	L	C) m
m		m
B) r		D) √ r

Q.7 An incompressible fluid flows steadily through a cylindrical pipe which has radius 2R at point A and radius R at point B further along the flow direction. If the velocity at A is V, then that at B is

V	
A) 2	C) 2V
B) V	D) 4V

- Q.8 A physical system under going forced vibrations is known as
 A) harmonic oscillator
 B) free oscillator
- C) forced harmonic oscillator D) driven harmonic oscillator.

 Q.9 If the phase difference between two interfering beams is π. The path difference is
- A) $\lambda/2$ C) $3\lambda/2$ B) λ D) 2λ

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