

Physics (SLO Based)

PR – IX (A-I-B) (24)

۱۔ ہر سوال کے سامنے چار دائرے دیئے گئے ہیں۔ صرف صحیح جواب والا دائرہ بھر دیں۔

۲۔ دائروں کو شید (بھرنے) کے لیے نیلے یا کالے رنگ کا پین استعمال کریں۔

۳۔ جواب میں ایک سے زائد دائرے بھرنے سے جواب غلط تصور ہوگا۔

Time: 15 Min

SECTION-A

Marks: 12

- 1) The gravitational force between two bodies having masses 1 kg each and separated by a distance of 1m is:
 $6.67 \times 10^{-9} \text{N}$ $6.67 \times 10^9 \text{N}$
 $6.67 \times 10^{-11} \text{N}$ $6.67 \times 10^{11} \text{N}$
- 2) Kinetic energy is expressed as:
 mv^2 $\frac{1}{2} mv^2$ $\frac{1}{2} v^2$ $\frac{1}{2} m^2v$
- 3) The percentage efficiency of a nuclear power plant that converts 320 KJ chemical energy to 80 KJ electrical energy is:
 4% 20% 25% 40%
- 4) Young's modulus is measured in unit of:
 N/m^2 Kgm Kgm^{-2} N/m
- 5) The direction of flow of heat between two objects is determined by their;
 Colour Weights
 Temperature difference Separation
- 6) The transfer of heat from one place to another based on the bulk motion of molecules is carried in:
 Radiation Conduction
 Convection Evaporation
- 7) The SI unit of length among the following is;
 Kilogram Kelvin Mole Meter
- 8) In a death well, if a motorcyclist returns to its initial point, the magnitude of his displacement is:
 $2\pi r$ 180m 609m Zero
- 9) When we push a heavy crate horizontally, the crate does not move due to:
 Kinetic friction Static friction
 Sliding friction Rolling friction
- 10) The centripetal force on a body of mass 3kg moving with velocity 5 m/s in circle of radius 3m is:
 35N 30N 25N 20N
- 11) In a right-angled triangle, the trigonometric function used to find horizontal component of a force is:
 $\sin \theta$ $\cos \theta$ $\tan \theta$ $\cot \theta$
- 12) A compact disk rotating in a CD player with constant angular velocity is the example of:
 Static equilibrium Translational equilibrium
 Rotational equilibrium Neutral equilibrium