

Paper 2019 (Overseas) MCQs

1. $4800000W = \underline{\hspace{2cm}}$ MW.
A. 4800 B. 480 C. 48 **D. 4.8**
2. 32×10^5 in standard form is equal to:
A. 3.2×10^4 **B. 3.2×10^6** C. 3.2×10^7 D. 3.2×10^5
3. A car travelling at $10ms^{-1}$ accelerates uniformly at $2ms^{-2}$. What will be its velocity after 5s?
A. 10 B. 50 **C. 20** D. 40
4. A boy jumps out of a moving bus. There is a danger for him to fall:
A. Towards the moving bus B. Away from the bus
C. In the direction of motion of bus D. Opposite to the direction of motion of bus
5. If $F = 200N$ and $\theta = 30^\circ$ then what will be the value of F_y ?
A. 50 N B. 100 N C. 173.2 N D. 200 N
6. Centre of gravity of a uniform triangular sheet lies at the point of intersection of its:
A. Lines B. Corners **C. Medians** D. Diagonals
7. Near the surface of the earth, the gravitational field strength is:
A. $5 Nkg^{-1}$ **B. $10 Nkg^{-1}$** C. $15 Nkg^{-1}$ D. $20 Nkg^{-1}$
8. The altitude of geostationary orbits in which communication satellites are launched above the surface of the earth is:
A. 850 km B. 1000 km C. 6400 km **D. 42,300 km**
9. A cyclist does 12 joules of useful work while pedaling bike from every 100 joules of food energy which he takes. His efficiency is percent.
A. 1.2 B. 88 **C. 12** D. 120
10. Young's modulus Y is equal to:
A. $\frac{F A}{L_0 \Delta L}$ B. $\frac{F \Delta L}{A L_0}$ C. $\frac{A \Delta L}{F L_0}$ **D. $\frac{F L_0}{A \Delta L}$**
11. SI unit of latent heat of vaporization is:
A. J B. Kg C. Jkg **D. Jkg⁻¹**
12. Eagle, hawks and vultures are expert climbers.
A. Electric B. Chemical C. Potential **D. Thermal**