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so many fake sites. this is the first one which worked! Many thanks

Be sure with
Vidyalankar
MHT-CET 2007 - Sample Test Paper
Paper 1 - Physics & Chemistry

1. A satellite of mass 'm' revolves around the earth of radius 'R' at a height 'h' from its surface. If 'g' is the acceleration due to gravity on the surface of the earth, the orbital speed of the satellite is:
(A) $g\sqrt{\frac{R}{R+h}}$ (B) $g\sqrt{\frac{R+h}{R}}$ (C) $g\sqrt{\frac{R}{R+h}}$ (D) $g\sqrt{\frac{R+h}{R}}$
2. A particle rests on the top of a hemisphere of radius 'R'. It begins to slide without friction on the surface. If it leaves the surface of hemisphere at height 'h' above the centre (O) of hemisphere, then:
(A) $h = R$ (B) $h = \frac{R}{2}$ (C) $h = 2R$ (D) $h = \frac{R}{4}$
3. The surface tension of a liquid is 3 Nm^{-1} . If a thin film is formed on a loop of area 10 cm^2 , then its surface energy will be:
(A) $5 \times 10^{-2} \text{ J}$ (B) $4 \times 10^{-2} \text{ J}$ (C) $2 \times 10^{-2} \text{ J}$ (D) $3 \times 10^{-2} \text{ J}$
4. According to Prevost's theory every object
(A) radiates heat at the temperature above room temperature
(B) absorbs heat at the temperature above room temperature
(C) radiates heat at all temperatures
(D) reflects radiant heat at all temperatures
5. When interference pattern is obtained the distance between the mid point of the 6^{th} dark band on one side and 6^{th} bright band on the other side of the central bright band is
(A) 2 times the band width (B) 10/5 times the band width
(C) 7/5 times the band width (D) 10 times the band width
6. The internal resistance of fuel acid cell is less than the internal resistance of
(A) Daniell cell (B) Leclanche cell (C) Dry cell (D) All of these
7. A resistance of 2Ω is connected in parallel to a galvanometer of resistance 48Ω . The fraction of the total current passing through the resistance of 2Ω is
(A) 92% (B) 94% (C) 96% (D) 98%
8. A coil and a bar magnet move in the same direction with same high speed then
(A) high emf is induced across the coil
(B) no emf is induced across the coil
(C) low emf is induced across the coil
(D) magnetic flux linked with the coil changes fast
9. Plate characteristics of a triode valve are the curves obtained on plotting a graph between
(A) plate voltage and plate current at constant grid voltage
(B) grid voltage and plate current at constant plate voltage
(C) grid voltage and plate voltage at constant plate current
(D) filament current and plate current at constant plate voltage
10. To use a transistor as an amplifier
(A) emitter-base junction is forward biased and collector-base junction is reverse biased
(B) both junctions are forward biased
(C) both junctions are reverse biased
(D) it does not matter how the transistor is biased, it always works as an amplifier

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