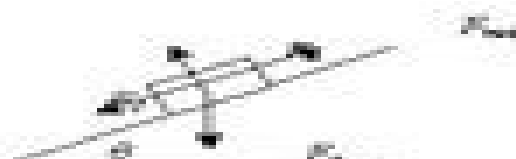


Final Exam Ver. #1 (60 multiple choice)

MULTIPLE CHOICE

(60 marks)

Choose the best answer. Show calculations on lined paper.



1. A box of mass m is on a ramp tilted at an angle of θ above the horizontal. The box is subject to the following forces: friction (F_f), gravity (F_g), pull (F_{app}) and normal (F_N). The box is moving up the ramp. Which formula is correct for F_{app} if the box is moving at constant velocity?

- A) $F_{app} = F_f$ B) $F_{app} = F_f + F_g \sin \theta$
 C) $F_{app} = mg - F_f$ D) $F_{app} = F_f - F_g \sin \theta$



2. A highway curve of radius 100 m, banked at an angle of 45° , may be negotiated without friction at a speed of

- A) 44 m/s B) 22 m/s C) 67 m/s D) 31 m/s

3. A car rounds a very steep, banked curve moving at low speed. A front-end view of the car is shown above. For the diagram shown above:

- A) The net centripetal force is generated by friction.
 B) The net centripetal force is generated by the normal and gravity.
 C) The frictional force is static and its directed in the normal direction.
 D) The frictional force is static and its directed up the incline.

4. A motorcycle has a mass of 250 kg. It goes around a 13.7 m radius turn at 96.5 km/h. What is the centripetal force on the motorcycle?

- A) 469 N C) 1.31×10^4 N
 B) 2.95×10^3 N D) 1.70×10^4 N

5. An object travels in a circular path of radius r at a constant speed v . What happens to the object's acceleration if the radius of the circle is quadrupled and the speed is doubled?

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G Thomas



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