

11. Which one of the following statements is *true*?

- (a) Rectangular coordinate systems must be stationary.
- (b) The positive tangential direction of an n - t coordinate system must point toward the centre of curvature.
- ☒ (c) Normal-tangential coordinate systems cannot be used to measure position.
- (d) $\Sigma \underline{F} = m\underline{g}$ can be used with an accelerating coordinate system.

12. A bus collides head-on with a car. During the collision, which one of the following statements is true?

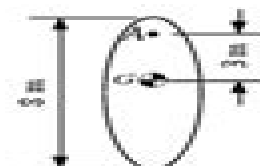
- ☒ (a) The bus exerts the same amount of force on the car as the car exerts on the bus.
- (b) The bus exerts a greater amount of force on the car than the car exerts on the bus.
- (c) The car exerts a greater amount of force on the bus than the bus exerts on the car.
- (d) Neither exerts a force on the other, the car gets smashed simply because it gets in the way of the bus.

13. The object shown has a mass of 4 kg and moment of inertia about its centre of mass G of 16 kgm^2 . What is the object's moment of inertia about point A ?

- (a) 4 kgm^2
- ☒ (b) 52 kgm^2
- (c) 16 kgm^2
- (d) 28 kgm^2

$$I_A = I_G + md^2$$

$$= 16 + 4(9) = 52$$



Refer to the figure on the right when answering the next two questions. A 2500-kg car is approaching a 15° slope. At A the car has a speed of 30 km/h. Ignore aerodynamic effects.



14. The driver wants to have a speed of 50 km/h at D . Consider the total energy required to move from A to D , which road segment should the driver accelerate in to reach 50 km/h that would result in the least energy required?

- ☒ (a) It takes the same amount of energy to accelerate the car and move from A to D regardless of the road segment.
- (b) $B - C$
- (c) $A - B$
- (d) $C - D$

$$U_{A \rightarrow D} = \Delta T + \Delta U_g + \Delta U_c$$

Do not depend on angle
 $\therefore U_{A \rightarrow D}$ is the same

15. If the car is travelling at a constant speed of 50 km/h between B and C , what is the power output required by the engine to keep it going at this constant speed?

- (a) 0 kW since the car is already moving at constant speed.
- (b) 329.0 kW
- ☒ (c) 88.2 kW
- (d) 317.4 kW



$$a = 0$$

$$F = mg \sin 15$$

$$P = F \cdot v$$

$$= 2500 (9.81) \sin 15 \times \frac{50}{3.6}$$

$$= 88.2 \text{ kW}$$

Exam Solutions S1

David Baud



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