

## GATE 2016

Q. 1 – Q. 5 carry one mark each.

- Q1. The volume of a sphere of diameter 1 unit is \_\_\_\_\_ than the volume of a cube of side 1 unit.  
(a) least (b) less (c) lesser (d) low
- Q2. The unruly crowd demanded that the accused be \_\_\_\_\_ without trial.  
(a) hanged (b) hanging (c) hankering (d) hung
- Q3. Choose the statement(s) where the underlined word is used correctly:  
(i) A prong is a dried plum.  
(ii) He was lying prong on the floor.  
(iii) People who eat a lot of fat are prong to heart disease.  
(a) (i) and (iii) only (b) (iii) only (c) (i) and (ii) only (d) (ii) and (iii) only
- Q4. **Fact:** If it rains, then the field is wet.  
Read the following statements:  
(i) It rains  
(ii) The field is not wet  
(iii) The field is wet  
(iv) It did not rain  
Which one of the options given below is **NOT** logically possible, based on the given fact?  
(a) If (iii), then (iv). (b) If (i), then (iii).  
(c) If (i), then (ii). (d) If (ii), then (iv).
- Q5. A window is made up of a square portion and an equilateral triangle portion above it. The base of the triangular portion coincides with the upper side of the square. If the perimeter of the window is  $6\text{ m}$ , the area of the window in  $\text{m}^2$  is \_\_\_\_\_.  
(a) 1.43 (b) 2.06 (c) 2.68 (d) 2.88

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web circle the correct answers the mass of the system a b is  $m + 2m$  the force that accelerates a b is the weight of a b the weight of b is  $mg + 2mg$  acceleration of a b is less than  $mg + 2mg/g$  more than  $g$  use a to show the acceleration of a b as a fraction of conceptual physics

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web t t toward center of circle yes yes yes f f because centripetal acceleration is not zero n n yes provides centripetal force for circular motion conceptual physics

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web dec 11 2012 1 kg consider the acceleration of the cart when the applied force is due to a 10 n iron weight attached to a string draped over pulley will the cart accelerate as before at  $10 \text{ m/s}^2$  the answer is no because the mass being accelerated is the mass of the cart plus the mass of the piece of iron that pulls it both masses accelerate

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web dec 12 2012 1 draw sample force of shown hand 3 a which the b which the 4 it is important to distinguish between force and velocity vectors force vectors combine with other force vectors and velocity vectors combine with other velocity vectors do velocity vectors combine with force vectors no 5

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web circle the correct answers 5 we see that tension in a rope is dependent on independent of the length of the rope so the length of a vector representing rope tension is dependent on independent of the length of the rope concept development 2 2 practice page

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web mar 4 2013 the distance between the balls decreases the wavelength decreases just as the distance between the balls in question 5 decreases 30 m 30 cm 1 m s

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web our intuitive definition of force that is a push or a pull is a good place to start we know that a push or pull has both

magnitude and direction therefore it is a vector quantity and can vary considerably in each regard for example a cannon exerts a strong force on a cannonball that is launched into the air

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