

## Section (a) : Mechanics

1. A conical pendulum consists of a light inextensible string  $AB$ , fixed at  $A$  and carrying a particle of mass  $0.05 \text{ kg}$  at  $B$ . The particle moves in a horizontal circle of radius  $\sqrt{2} \text{ m}$  and centre of gravity below  $A$ . If the angle between the string and the vertical is  $50^\circ$ ,

find

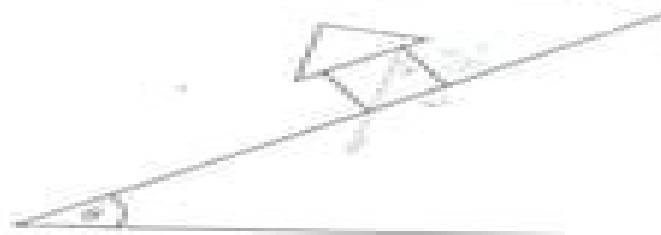
- (i) the tension in the string, [2]  
 (ii) the angular speed of the particle. [2]

2. An African hut model is in the form of a solid uniform cylinder joined to a solid cone. The diagram shows the cross section of the African hut model.



The radius of the cylinder is  $2r$  and that of the cone is  $2r$  and is of slant length  $6r$ . The centre of mass of the model is at  $O$  (see diagram).

- (a) Show that the height of the cylinder is  $\frac{9}{2\sqrt{2}}r$ . [6]  
 (b) The hut model is now placed on a rough inclined plane as shown below.



Given that the model is at the point of toppling, find the angle,  $\theta$ , which the inclined plane makes with the horizontal. [2]

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