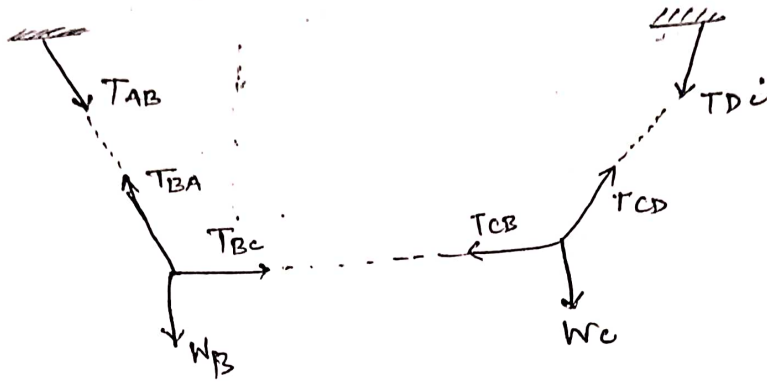
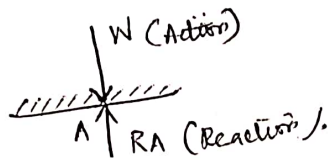
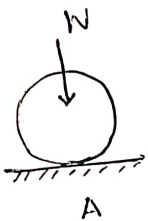


Now, all forces acting on the string ABCD.



Actions and Reactions:



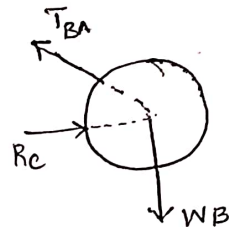
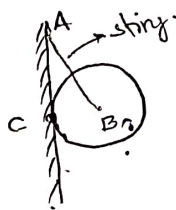
* Ball acting with its weight (W) acting downwards thru its centre of gravity. \rightarrow Action (\downarrow).

* Vertical downward motion is resisted due to resisting force developed at support \rightarrow Reaction (\uparrow).

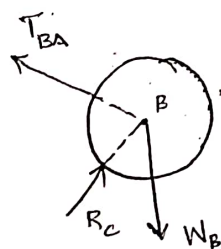
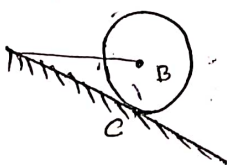
Bodies under equilibrium

Free body diagram.

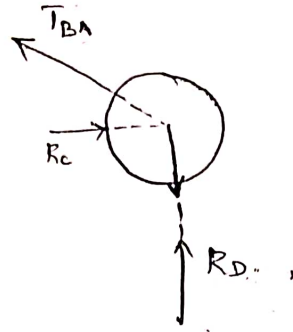
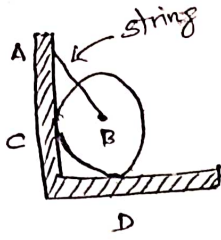
(1)



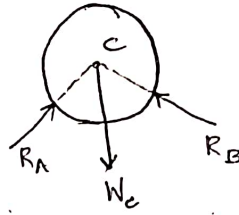
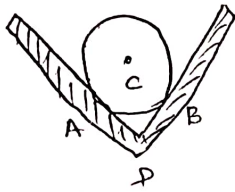
(2)



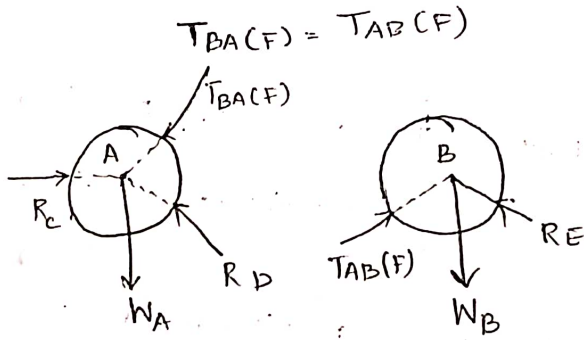
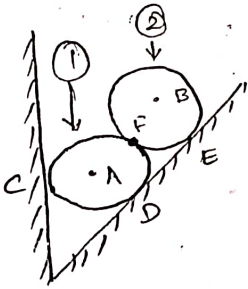
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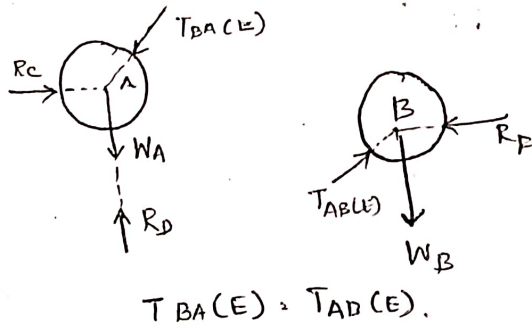
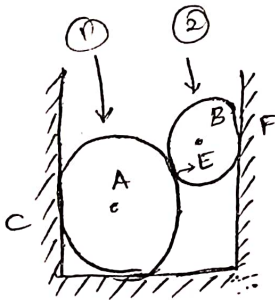
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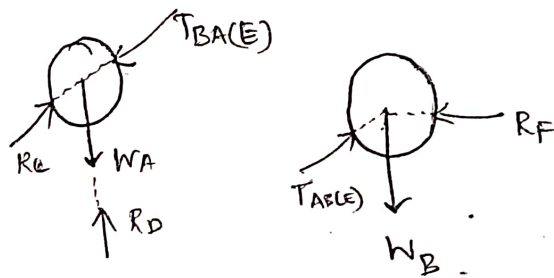
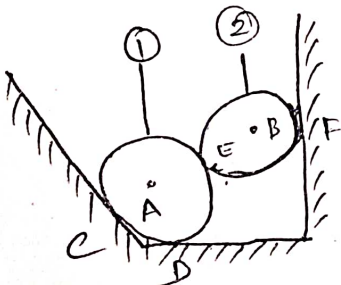
5



6



7



$T_{BA(E)} = T_{AB(E)}$