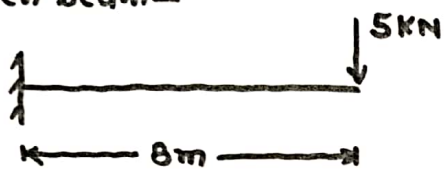
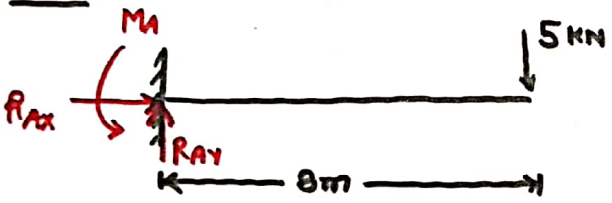
ANALYSIS OF CANTILEVER BEAM:-

Question :- Find the reactions of the given beam—



Solve :-



At equilibrium Condition-

$\Sigma X = 0$; $\Sigma Y = 0$

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$R_{Ax} = 0$

& $\Sigma Y = 0$

$5\downarrow - R_{AY}\uparrow = 0$

$[R_{AY} = 5\ KN]$

* Now To find Moment-

$M_A = F \times r$

$= 5\ KN * 8\ m$

$[M_A = 40\ KN\text{-}m]_{//}$

IMPORTANT QUESTIONS

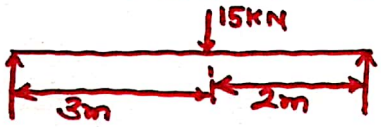
(1) Explain the different force system in details. What is the principle of transmissibility of forces?

(2) Explain the triangle law of forces, and polygon law of forces with neat sketch.

(3) Explain in details the lami's theorem.

(4) Explain the type of loads and supports.

(5) Find the reactions at the support-



(6) Find the unknown forces P and Q in the given diagram-