

(Maximum Marks :30)

### Quiz

Subject: Theory of Structure 2

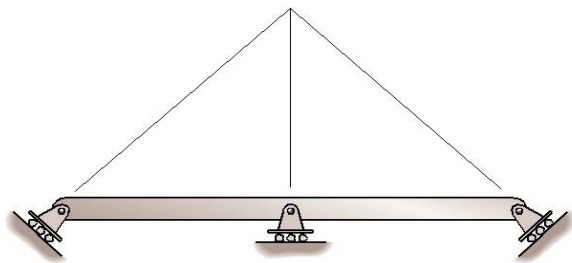
#### 1.Fill in the blanks

(B. Tech Civil)

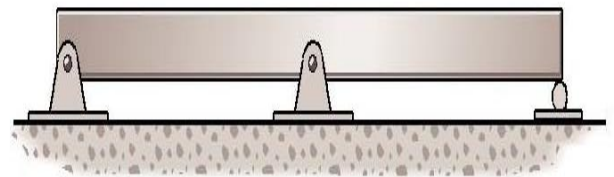
1. If I want to know the shear force and bending moment diagram produced by moving truck on a bridge then the method, I prefer to use will be \_\_\_\_\_
2. Beam having all reactions parallel will be \_\_\_\_\_
3. The structure for which all reactions and forces can be analyzed or found by using equation of equilibrium is statically \_\_\_\_\_
4. In a formula  $r=3n$ ,  $n$  shows \_\_\_\_\_
5. For Fix end support the number of reactions are \_\_\_\_\_

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2.Classify each of the structures as statically determinate, statically indeterminate or if unstable, specify degree of indeterminacy if applicable.

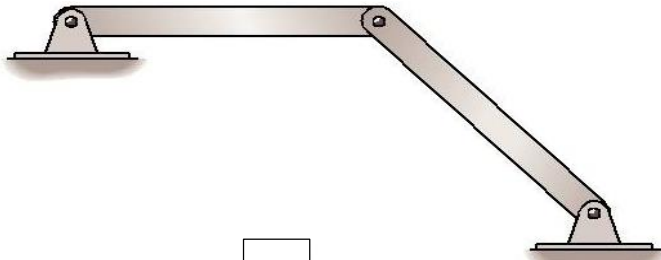


a

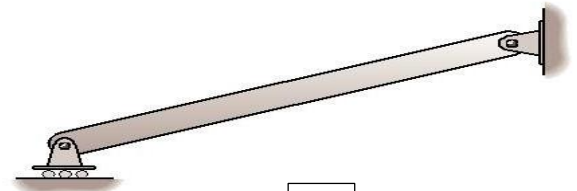


b

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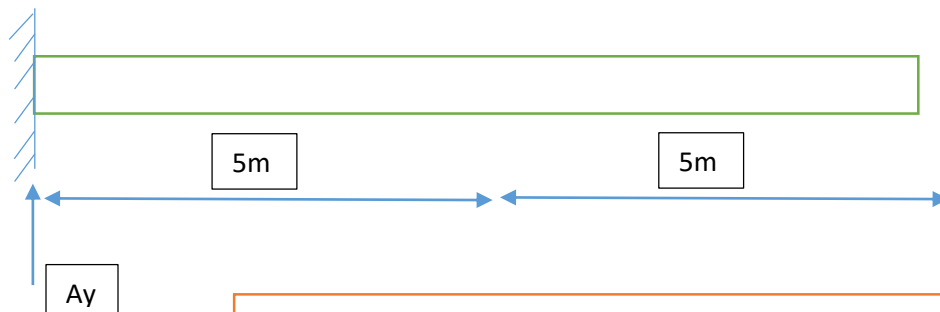


c



d

3.Find Influence line for reaction at  $A_y$  due to moving concentrated force by using Brut Force method.



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Note: Answers should be submitted in give time period respectively