

CoxDA.
Assistant Authorized Officer
Exam taker - BUET.

$$\text{Tree} \rightarrow (6 \times 5) = 30$$

$$\text{Non Tree} \rightarrow \frac{(50 \times 1)}{80} = 50$$

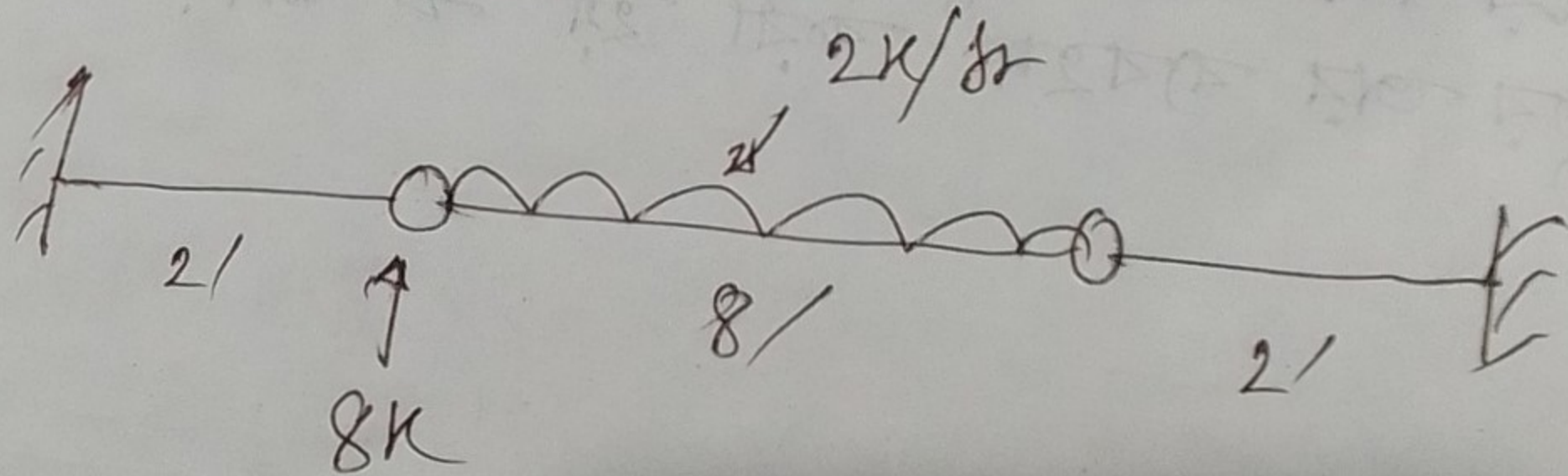
1. Runoff co-efficient of different area given as:

	Area (ha)	R-co-efficient
field	8	0.8
-	17	0.2
-	20	0.4
-	50	0.7

Average infiltration rate 80 mm/hr. Find peak discharge.

2

Draw SFD and BMD.



3 (a) Find FM. (মত)

(b) Fill in the gap.

(1) . Value of bearing capacity factor, $N_c = ?$

(ii) . $\theta = 30^\circ$, $K_p = ?$

(iii) . $D_{60} = 0.25$, $D_{10} = 0.1$, $C_u = ?$

[4] . Draw Marshall test property curve.

(5) (a) . Define BOD and COD.

(b) . Calculate no. of cement bags of 100 cft concrete, mix ratio 1:2:4.