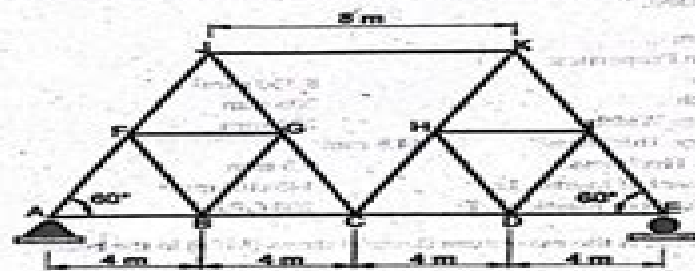


SITUATION 1: MAY 2019

A bridge truss is subjected to a standard highway load at the bottom chord. The highway load consists of a uniformly distributed load of 9.35 kN/m and a concentrated load of 116 kN.



For the computation of design forces, apply the moving concentrated load at the truss joint only.

1. Find the maximum vertical reaction at A due to the highway load.

- a. 142.4 kN
b. 190.9 kN
 c. 74.8 kN
 d. 123.3 kN

2. What is the maximum ordinate of the influence line for the force developed in member JK?

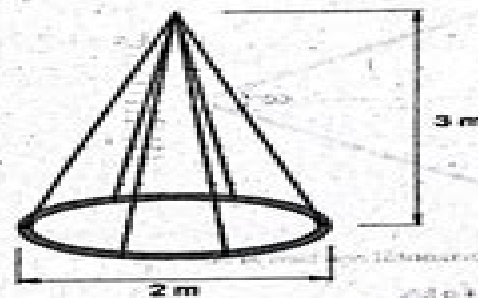
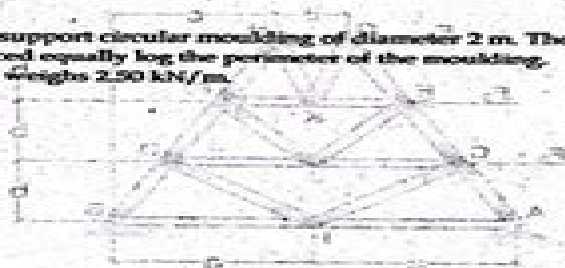
- a. 0.289
b. 0.577
 c. 0.25
 d. 0.856

3. Determine the maximum force that can be developed in member JK due to the highway load.

- a. 110.1 kN (T)
 b. 66.9 kN (C)
c. 110.1 kN (C)
 d. 66.9 kN (T)

SITUATION 2:

Six steel cable support circular moulding of diameter 2 m. The cables are spaced equally along the perimeter of the moulding. The moulding weighs 2.50 kN/m.



4. Which of the following most nearly gives the tension in each cable?

- a. 2.76 kN**
 b. 2.67 kN
 c. 2.62 kN
 d. 2.55 kN

5. Which of the following most nearly gives the minimum diameter of each cable if the allowable stress is 124 MPa?

- a. 5.32 mm**
 b. 5.19 mm
 c. 5.12 mm
 d. 5.24 mm

6. Which of the following most nearly gives the vertical displacement of the moulding if the diameter of each cable is 10 mm?

- a. 0.53 mm
 b. 0.67 mm
c. 0.59 mm
 d. 0.64 mm

SITUATION 3: MAY 2019

A wooden log is to be used as a foot bridge to span a 2m gap. The log is to support a concentrated load of 27 kN.

Allowable shear stress = 1.2 MPa
 Allowable bending stress = 6.3 MPa

7. What is the diameter of the log needed for a maximum shear?

8. Find the diameter of the log needed so that the allowable bending stress is not exceeded.

9. A 150 wide rectangular log is to be used instead of the circular log. What is the required minimum depth of the log so as not to exceed the allowable bending stress?

SITUATION 4:

The pin jointed assembly supports a billboard 3 m high x 4 m wide on each end. The total weight of the billboard is 3 kN x 4 m wide on each end. The total weight of the billboard is 30 kN.

10. Which of the following most nearly gives the tension in each cable?

- a. 2.76 kN
 b. 2.67 kN
 c. 2.62 kN
 d. 2.55 kN

11. Which of the following most nearly gives the minimum diameter of each cable if the allowable stress is 124 MPa?

- a. 5.32 mm
 b. 5.19 mm
 c. 5.12 mm
 d. 5.24 mm

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Yicheng Fang



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