

NATIONAL INSTITUTE OF TECHNOLOGY SRINAGAR
B.TECH - SEMESTER II **MID TERM EXAMINATION-SPRING 2022**

Subject Code: CIL 100
Subject: Engineering Mechanics

Date: 24-june-2022

Time: 1.5 Hours

Total Marks: 30

Instructions: Attempt all questions

S.No

Q1

- A) For the post loaded as shown in Fig. 1, determine i) the required tension in rope AC if the resultant of the three forces exerted at point C is to be horizontal ii) the corresponding magnitude of the resultant.

Marks

05

CO

CO1

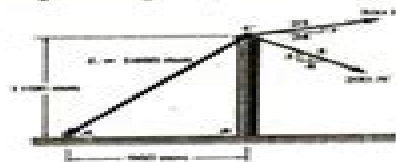


Fig. 1

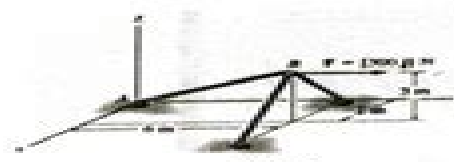


Fig. 2

Q2

- B) The frame shown in Fig. 2 is subjected to a horizontal force F. Determine the magnitude of the components of this force parallel and perpendicular to the member AB using dot product.

05

CO1

- A) What are the conditions for a particle to be in equilibrium? Determine the required length of cord AC in Fig. 3 so that the 8kg lamp can be suspended in the position shown. The undeformed length of spring AB is 0.4m and the spring has a stiffness of $k = 300 \text{ N/m}$.

05

CO1

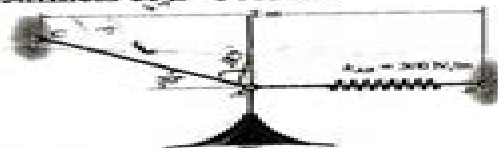


Fig. 3



Fig. 4

Q3

- B) What is torque? What does Varignon's theorem states? Two forces act on the rod shown in Fig. 4. Determine the resultant moment about point O. Also determine the coordinate direction angles of M_R .

05

CO1

- A) Replace the loading system given in Fig. 5 by an equivalent resultant force and couple moment acting at point A. Also find the reactions at A and B.

05

CO1



Fig. 5



Fig. 6

- B) Determine the maximum force P that can be applied without causing sliding or overturning of a 250lb crate as shown in Fig. 6. The coefficient of static friction at floor is 0.4.

05

CO3

$$W = 250 \text{ lb}$$

$$\mu = 0.4$$

$$N = 250 \text{ lb}$$

$$P_{max} = 100 \text{ N}$$

$$f = \frac{P_{max}}{N}$$

$$f = \mu_s N = P_{max}$$

$$f = 250 \text{ lb}$$

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