

## IQRA NATIONAL UNIVERSITY, PESHAWAR

## DEPARTMENT OF CIVIL ENGINEERING

Semester (4th) Major Assignment (Spring Semester 2020)		
Subject: Steel Structures Instructor: Amjad Islam	(Course Code):	<b>Duration:</b> 6 hours <b>Total Marks:</b> 30
Note: Attempt all questions. Assume any	v necessary data, if required.	
Q1:		(5+5)

a- Define Determinacy and Stability. Find if the truss given in Q2 is determinate and stable.

b- Write a brief note on different types of loads. (CLO 1)

(10)

## Q2:

Determine the force in each member of the truss. State if the members are in tension or compression. Assume all members are pin connected. (CLO 2)



## Q3:

Determine the slope at *B* and the maximum displacement of the beam. Use the moment-area theorems. Take E = 29(103) ksi, I = 500 in4.. (CLO2)

