JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TERM 1 EXAMINATIONS-2022

B.Tech.-VII Semester

COURSE CODE (CREDITS): 18B1WCE737 (3)

MAX. MARKS: 15

COURSE NAME: Finite Element Method

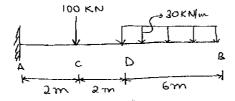
COURSE INSTRUCTORS: Sugandha Singh

MAX. TIME: 1 Hour

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

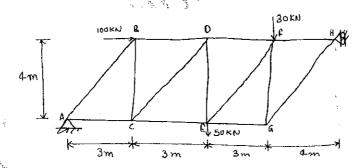
- 1. Describe the types of Instabilities in a Structures.
- 2. Find the support reactions for the following beam.

[CO-1, 3 marks] [CO-1, 2 marks]



3. For the given truss, find the forces in the members CD, DE, and EF.

[CO-1, 5 marks]



4. Draw the Free-Body Diagram of the following rigid-framed structure.

[CO-1, 5 marks]

