



Dnyaneshwar Vidyapeeth (Trust)

CENTRAL EXAMINATION BOARD

ASSIGNMENT OF THEORY OF STRUCTURES-1

SUB -CODE- (CVL-G520) COURSE: ADVANCED TECH-QUIC PROGRAM

SESSION - WINTER

ASSIGNMENT NO. 1 (Assignment Based on Topic No. 1)

BRANCH - CIVIL

Q.1 Answer the following (Questions for 5marks)

- 1) Define D.O.K.I (Determination of Kinematic indeterminacy)
- 2) Define D.O.S.I (Determination of static indeterminacy)
- 3) Differentiate between statically Determinate Structure & statically Indeterminate Structure.
- 4) What is static Structure?
- 5) Determine D.O.S.I (Determination of static indeterminacy) For fig 10

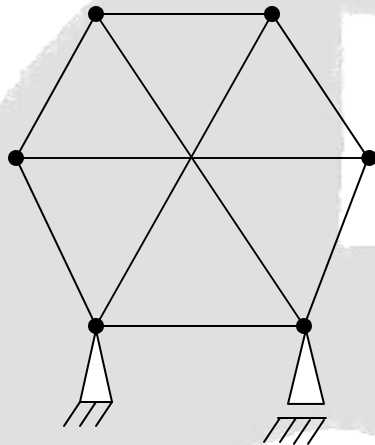


Fig (10)

- 6) Determine D.O.S.I (Determination of static indeterminacy) For fig 5

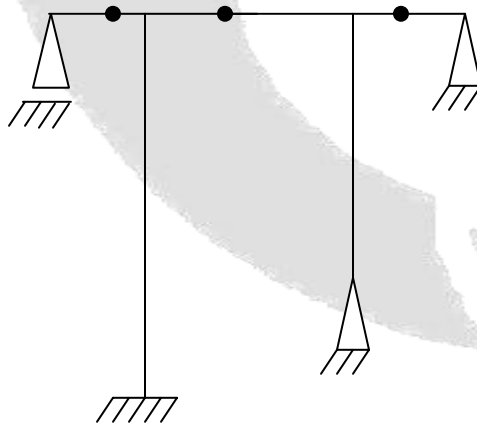


Fig (5)

7) Determine D.O.S.I (Determination of static indeterminacy) for fig 11

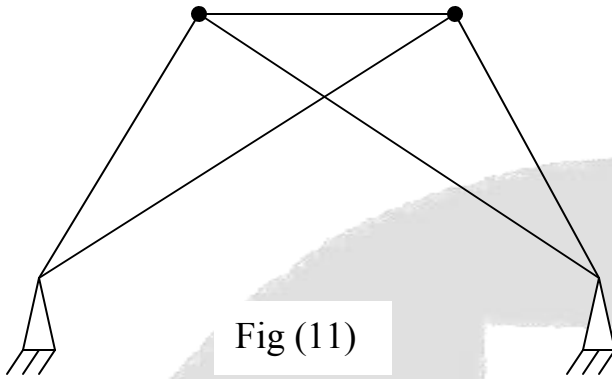


Fig (11)

8) Determine D.O.S.I (Determination of static indeterminacy) for fig 12

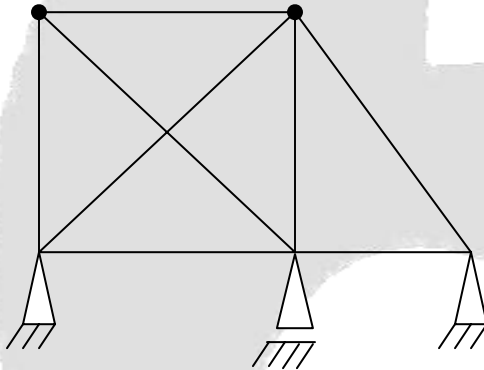


Fig (12)

9) Determine D.O.S.I (Determination of static indeterminacy) For Fig13.

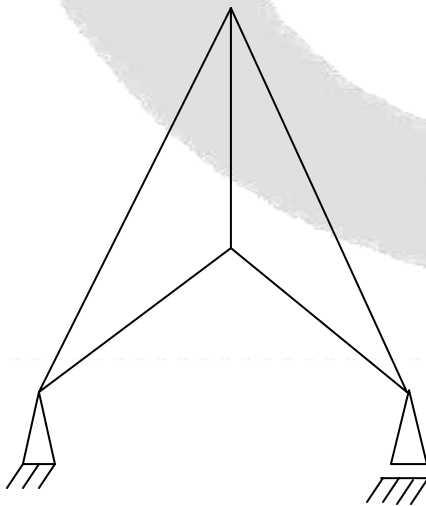


Fig (13)

10) Determine D.O.K.I (Determination of Kinematic indeterminacy) For Fig.14

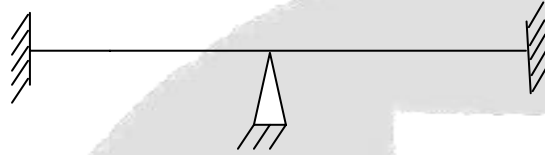


Fig (14)

11) Determine D.O.K.I (Determination of Kinematic indeterminacy) For Fig.15

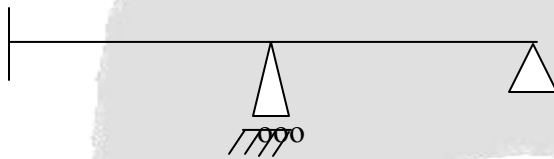


Fig (15)

12) Determine D.O.S.I (Determination of static indeterminacy) For Fig9,

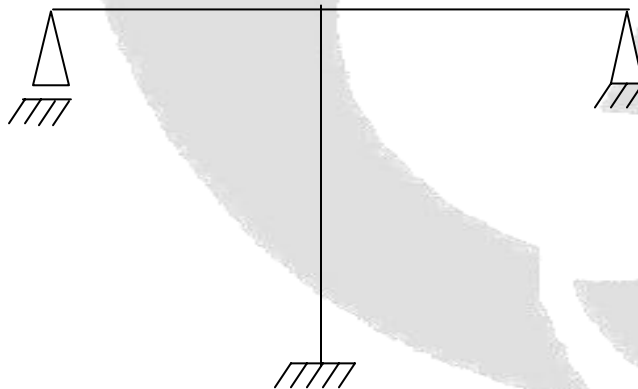


Fig (9)

Q.2 Answer the following (Questions for 10 marks)

1) Solve Fig 22 by Strain Energy Method

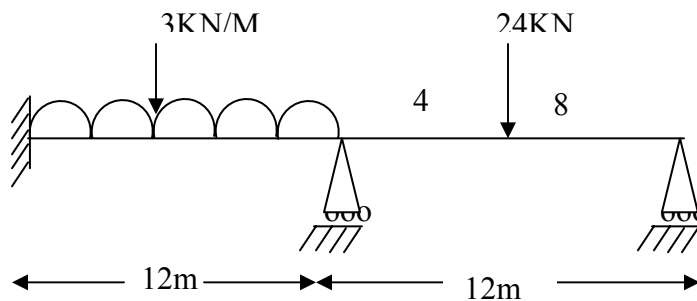


Fig (22)