

G.R. No.

[P118-114 (T2)]

OCTOBER 2018 / IN - SEM (T2)

F. Y. M. TECH.(Civil-Structure) (SEMESTER -I)

COURSE NAME: Finite Element Analysis

COURSE CODE: CVPB11184A

(PATTERN 2018)

Time: [30 Minutes]

[Max. Marks: 10]

(*) Instructions to candidates:

- 1) Figures to the right indicate full marks.
- 2) Use of scientific calculator is allowed
- 3) Use suitable data where ever required

Q1) Determine the nodal displacement and stress at **node 2** for a given beam as shown in figure.

$A_1=2400\text{mm}^2$, $A_2=1200\text{mm}^2$, $E_1=0.7\times 10^5\text{N/mm}^2$, $E_2=2\times 10^5\text{N/mm}^2$ [10 marks]

