

7, 05/03/2019 D : 05/08/2019

A4 professional format, collecting at the BEGINNING of class (09:09 am)

(late submission within 24 hours: score*0.9; late submission before post of solution: score*0.8

(the solution will be posted usually within a week))

Total 80%

1. (30%) D K_{11} 3 K^e

2. (30%) C 3 ,

$$\mathbf{f}^e = \frac{tA^e}{b_x + b_x + b_x} \begin{pmatrix} b_x + b_x + b_x \\ b_y + b_y + b_y \\ b_x + b_x + b_x \\ b_y + b_y + b_y \end{pmatrix}$$

$$b_{x1}^e, b_{y1}^e, b_{x2}^e, b_{y2}^e, b_{x3}^e, b_{y3}^e$$

3. (20%) C

() C
()

$$u_{x1} = 0.005 \text{ mm} \quad u_{x2} = 0.0 \text{ mm} \quad u_{x3} = 0.005 \text{ mm}$$

$$u_{y1} = 0.002 \text{ mm} \quad u_{y2} = 0.0 \text{ mm} \quad u_{y3} = 0.0 \text{ mm}$$

$$E = 70 \text{ GPa}$$

$$\nu = 0.3 . C$$

