

"Heaven's Light is Our Guide"

Rajshahi University of Engineering & Technology

Department of Civil Engineering

4th year 7th semester examination 2016



CE-411

STRUCTURAL ANALYSIS & DESIGN-III

MEJBAUL ISLAM

CE-120003

SEC: A

CE-411
Theory

1. State and prove Muller's-Breslau principle. **14,05**
2. Derive stiffness matrix for a beam element. **14,12,08,04**
3. Derive the relation $D = FA$, where the symbols have their usual meanings. **14,11**
4. Derive the relation $A = SD$, where the symbols have their usual meanings.
13,12,10,09,07,06,05,04
5. What is composite structure? Give some examples. **11,08,05**
6. What are the limitations of moment distribution method? **04**

Problems

1. Moment distribution. **(1-set)**
2. Influence line. **(1-set)**
3. Slope deflection. **(1-2-set)**
4. Composite structure. **(1-set)**
5. Stiffness matrix method. **(2-set)**
6. Flexibility matrix method. **(1-2-set)**

MEJBAUL ISLAM
CE-120003
SEC: A
