

M.E (WREE)-SEM II

← Structures

Subject: Elective II (Human Rights, Nonlinear Analysis of Structures and Foreign Language)

Max marks: 50.

Date:

Note:

Answer Section A, Section B and Section C in separate answer books.

Solve any two full questions from Q.1, Q.2 and Q.3

Solve any two full questions from Q.4, Q.5 and Q.6

Q.7 and Q.8 are compulsory.

May 2016

SECTION A

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|-----|--|---------|
| Q.1 | a) Explain right to information act | 5 marks |
| | b) Write a note on various welfare schemes initiated by Govt. of India | 5 marks |
| Q.2 | a) Write a note on Police and Human rights | 5 marks |
| | b) Write a note on "Right to environment" | 5 marks |
| Q.3 | a) Globalization and human rights | 5 marks |
| | b) Explain role of Non-governmental organizations in implementation of human rights. | 5 marks |

SECTION B

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|-----|---|----------|
| Q.4 | a) Write a note on Geometric and Material nonlinearity. | 5 marks |
| | b) Derive the nonlinear moment-curvature relation for a beam | 5 marks |
| Q.5 | a) Derive the expression for maximum deflection of simply supported beam subjected to central point load. | 5 marks |
| | b) Derive the expression for vertical and horizontal component of deflection for cantilever column subjected to axial load. | 5 marks |
| Q.6 | Explain governing nonlinear equations for plates using stress function approach. | 10 marks |

SECTION C

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|-----|---|---------|
| Q.7 | Mettez au négatifs : | 5 marks |
| | 1) Je mange de la salade. | |
| | 2) Il parle espagnol. | |
| | 3) Nous voyons le film français. | |
| | 4) Elle mange des raisins | |
| | 5) Il bavarde dans la classe. | |
| Q.8 | Mettez le temps : | 5 marks |
| | 1) Je -----(manger) au restaurant. (Future proche) | |
| | 2) Il -----(finir) son devoir tous les jours. (present) | |
| | 3) Nous -----(parler) au professeur. (passé récent) | |
| | 4) Nous -----(apprendre) la langue français. (future proche) | |
| | 5) Elle -----(travailler)dur. (present) | |