Sub.Code: 660

NEB GRADE-XII

Maintenance and Rehabilitation of Structure

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs. Full Marks: 75

Pass Marks: 27 (For partial students only)

Attempt all questions.

Group 'A'

(Very short answer questions) 5x3=15

- 1. What is the classification of maintenance?
- 2. Enumerate different types of painting based on the materials.
- 3. What is short-creting?
- 4. List the important non-destructive field tests.
- 5. What is estimate?

Group 'B'

(Short answer questions)

6x5 = 30

- 6. What are the various maintenance process of life lines of buildings? Describe the maintenance process of bridges.
- 7. What is Ferrocement tank? Explain the construction procedure of overhead water tank with Ferrocement.
- 8. What is tender? Discuss the preparation of tender for the annual repair of roads.
- 9. Describe how would you determine the approximate age of a building.
- 10. What is rain water harvesting? Why it is necessary and how it is implemented?
- 11. Prepare a general layout of ordinary compound wall.

Group 'C'

(Long answer questions)

3x10=30

- 12. What are the different methods involved in strengthening of RCC beams, columns and slabs? Describe the steps involved in RC jacketing of columns in RCC building.
- 13. Explain how would you repair RCC structures damaged due to fire. Also discuss the effect of dampness in masonary buildings.
- 14. Explain the causes of damages due to earthquakes, fire hazards, flood hazards and dilapidation. Also name the basic equipments to be used for the investigation of damages.