

B. Tech Degree IV Semester Examination April 2011

CE 406 (A/B) CONSTRUCTION ENGINEERING AND MANAGEMENT I (2006 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART- A

(Answer ALL questions)

(8 x 5 = 40)

- I. (a) State the requirements of good formwork.
(b) Define underpinning and list our the situations necessary for underpinning.
(c) State and explain the Law of Diminishing Marginal Utility.
(d) Write short note on factors of production.
(e) Briefly enumerate the principles of delegation of authority.
(f) State the merits and demerits of Matrix Organizational Structure.
(g) Briefly explain any five functions of materials management.
(h) Explain the significance of selective inventory control.

PART- B

(4 x 15 = 60)

- II. Define shoring and with neat sketches explain the various types of shoring. (15)

OR

- III. (a) With neat sketches explain the parts of form work for beams and floors. (10)
(b) Briefly state the criteria for spacing of yokes in column formwork. (5)

- IV. (a) State and explain the Law of Demand. (7)
(b) Briefly explain price elasticity of demand and interpretation of different values for price elasticity. (8)

OR

- V. Explain the concept of National Income. Describe any two methods of calculating National Income. (15)

- VI. (a) Explain any two types of organizational structures along with their merits and demerits. (10)
(b) Explain the concept of decentralization. (5)

OR

- VII. (a) Explain the concept of organizational change. (8)
(b) What is Management by Objectives? (7)

- VIII. (a) State the need for an integrated approach to Materials Management. (7)
(b) Explain reorder level and how is it calculated. (8)

OR

- IX. (a) Derive an expression for Economic Order Quantity. Also mention the assumptions for simple EOQ. (7)
(b) In a leading manufacturing company, the monthly demand for a component is 1600 units. The cost of placing an order is Rs.100/- and the inventory carrying cost is 20%. The unit price is Rs.10/-. Calculate the EOQ. Also calculate the annual inventory cost. (8)

B. Tech Degree IV Semester Examination April 2011

CE 404 (A/B) ENGINEERING GEOLOGY AND SEISMOLOGY (2006 Scheme)

Time : 3 Hours

Maximum Marks : 100

PART – A (Answer ALL questions)

(8 x 5 = 40)

- I. (a) Explain the scope of geology.
(b) Describe the process of weathering and its products.
(c) Write the physical properties of the mineral muscovite.
(d) Describe the classification of igneous rocks.
(e) Explain Dip and Strike.
(f) Explain any one geological factor to be considered while constructing the reservoir.
(g) What is a Seismograph?
(h) What do you mean by Tsunami velocity?

PART – B

(4 x 15 = 60)

- II. Give an account of works of river briefly and some major geological features produced by this agency on the land surfaces due to erosion and deposition. (15)
- OR**
- III. Explain in detail soil erosion and control. (15)
- IV. Give the chemical composition and physical properties of the following minerals.
(i) Augite
(ii) Kyanite
(iii) Calcite (15)
- OR**
- V. Describe the different types of structures in metamorphic rocks. Add notes on the agents and types of metamorphism. (15)
- VI. Define a fold. Give the classification and the criteria for the recognition of a fold in the field. (15)
- OR**
- VII. Explain the geological conditions necessary for the design and construction of dam. (15)
- VIII. Describe the types, causes and effects of earthquakes. (15)
- OR**
- IX. Explain briefly Tsunami and inundates of Tsunami waves. (15)