

Total No. of Questions : 8]

**PB3749**

SEAT No. :

[Total No. of Pages : 2

[6262]-7

**T.E. (Civil)**

**CONSTRUCTION MANAGEMENT**

**(2019 Pattern) (Semester - I) (301005C) (Elective - I)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.*
- 2) *Neat diagram must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data if necessary.*

**Q1) a)** Discuss need and importance of labour laws associated with construction sector by explaining two laws. [6]

b) What are the various means of finance? Explain any one in detail. [6]

c) Explain workman's compensation act & construction workers act. [6]

OR

**Q2) a)** Explain Interstate Migrant Workers act and the Minimum wages act. [6]

b) Explain Project Cash Flow analysis considering construction site & list out various inflows & outflows. [6]

c) Explain Construction Project Balance Sheet with an example. [6]

**Q3) a)** Explain various steps involved in the process of Risk Management. [6]

b) Explain the role of value engineering in construction with respect to time & cost aspects. [6]

c) Enlist mathematical tools used in Risk management process and explain any one in detail with its applications. [6]

OR

**Q4) a)** Define Risk. Enlist various risk involved in construction & Explain any method of risk mitigation. [6]

b) Explain energy cost escalation and state its impact on infrastructure project. [6]

c) Define the process of Value Engineering & state its application. [6]

*P.T.O.*

- Q5)** a) Explain the process of Material Management & draw Materials Flow System Chart. [6]  
b) Write short note [6]  
i) Stores Management  
ii) Supply Chain Management  
c) Explain Inventory control techniques and state its importance. [5]

OR

- Q6)** a) Explain the objectives, functions and scope of material management in construction. [6]  
b) Define Economic Order Quantity (EOQ). State assumptions of EOQ model & discuss the equation. [6]  
c) Explain the concept of Logistics and state its importance. [5]
- Q7)** a) Explain Staffing policy and patterns in construction organization. [6]  
b) Enlist various types of trainings and explain any one in detail. [6]  
c) Define Artificial Intelligence technique and explain its application in Civil engineering. [5]

OR

- Q8)** a) Write short note on following HR terms [6]  
i) Recruitment & Selection  
ii) Performance Appraisal  
b) Differentiate between artificial neural network (ANN) & Genetic Algorithm. [6]  
c) Define HR. Explain the process of Human Resource Management & Human Resource development process. [5]

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