

PRN No.	
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PAPER CODE	V313-225-A-ESE
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December 2023 (ENDSEM) EXAM**TY (SEMESTER - I)**

COURSE NAME: Construction Management **Branch:** Civil Engineering **COURSE CODE:** CVUA31205A
(PATTERN 2020)

Time: [1Hr. 30 Min]**[Max. Marks: 40]**

(*) Instructions to candidates:

- 5) Figures to the right indicate full marks.
- 6) Use of scientific calculator is allowed
- 7) Use suitable data wherever required
- 8) All questions are compulsory. Solve any one sub question from Question 3 and any two sub questions each from Questions 4,5 and 6 respectively.

Q. No.	Question Description	Max. Marks	CO mapped	BT Level																								
Q.1	a) Explain the importance of Network Crashing.	[2]	CO1	Understand																								
Q2	a) Enlist applications for work study in Civil Engineering.	[2]	CO2	Understand																								
Q3.	b) Elaborate the concept of Break-Even Analysis in detail.	[6]	CO3	Understand																								
	b) Illustrate risk management and the role of insurance in risk management.	[6]		Understand																								
Q.4	a) Explain the different types of inventory models.	[5]	CO4	Understand,																								
	b) Annual expenditure of the material used in the construction project is given below. Classify them in A, B, C Classes and plot the ABC Curve.	[5]	CO4	Apply																								
	<table><tr><th>Sr. No</th><th>Item</th><th>Cost in Rs.</th></tr><tr><td>1</td><td>Cement</td><td>180000</td></tr><tr><td>2</td><td>Sand</td><td>35000</td></tr><tr><td>3</td><td>Steel</td><td>149000</td></tr><tr><td>4</td><td>Aggregates</td><td>90000</td></tr><tr><td>5</td><td>Nails</td><td>3200</td></tr><tr><td>6</td><td>Binding Wires</td><td>1200</td></tr><tr><td>7</td><td>Water</td><td>2500</td></tr></table>	Sr. No	Item	Cost in Rs.	1	Cement	180000	2	Sand	35000	3	Steel	149000	4	Aggregates	90000	5	Nails	3200	6	Binding Wires	1200	7	Water	2500			
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	c) Write a short note on ABC analysis.	[5]	CO4	Understand																								
Q.5	a) State the selection process used in equipment management.	[5]	CO5	Understand																								
	b) Explain the Importance of planning in equipment management.	[5]	CO5	Understand																								
	c Explain: Equipment cost and Operating cost	[5]	CO5	Understand																								

Q.6)	a) Elaborate importance of Management Information Systems in construction industry.	[5]	CO6	Apply
	b) State the role of ERP in Materials Management System.	[5]	CO6	Understand
	c) What are decision support systems?	[5]	CO6	Understand