BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: **B.TECH / B.ARCH BRANCH:** BT/CHEMICAL/CS/EEE/IT/MECH/ARCH

SUBJECT: CE428 CONSTRUCTION MANAGEMENT

TIME: 3:00 Hours

INSTRUCTIONS:

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- 1. The question paper contains 5 questions each of 10 marks and total 50 marks.
- 2. Attempt all questions.
- 3. The missing data, if any, may be assumed suitably.
- 4. Before attempting the question paper, be sure that you have got the correct question paper.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
- _____
- Matrix organizations are a blend of functional and projectized characteristics. Explain [2] CO2/BL3 Q.1(a) [3] CO2/BL3
- Differentiate between centralized and decentralized forms of a construction company. Q.1(b)
- Discuss different forms of business organization firms. Q.1(c)

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- Describe the factors affecting cash flow diagram. Q.2(a)
- Explain the criteria to evaluate public projects. Q.2(b)
- Q.2(c) The details of the financial transactions during the months of April, May and June for construction company are given in Table. Draw a neat cash-flow diagram for the transactions.

Date	Description	Amount (In Rs.)
April 5	Receipt for running account bill # 1	150,000
April 10	Salary disbursement	80,000
April 16	Payment for supply of aggregates	20,000
April 21	Payment for supply of stationery for office	5,000
	use	
May 7	Receipt for running account bill # 2	180,000
May 10	Salary disbursement	80,000
May 28	Payment for supply of cement	50,000
June 6	Receipt for running account bill # 3	250,000
June 10	Salary disbursement	80,000
June 16	Payment for supply of structural steel	100,000
June 28	Payment of rent of premises for July and	100,000
	August	

Q.3(a) Q.3(b)	A construction material trading company receives a total of 200 ton as annual demand	[2] CO3/BL3
Q.3(D)	for steel reinforcement. The annual cost of carrying per-unit ton of reinforcement is Rs. 2,000, and the cost to place an order is Rs. 25,000. What is the economic order quantity?	[3]CO3/BL3
Q.3(c)	Differentiate between ABC analysis, VED analysis and FSN analysis.	[5]CO3/BL3
Q.4(a)	Explain about total quality management. To what extent is it different from quality assurance system?	[2] CO3/BL3
Q.4(b) Q.4(c)	Discuss inspection, quality control and quality assurance in a construction project. Describe the importance of audit in the context of quality conformance.	[3] CO3/BL3 [5] CO3/BL3
Q.5(a) Q.5(b)	Discuss about the role of safety officer in construction site. Explain safety-related problems in the Indian construction industry. Summarize various hazards associated with the construction industry as regards safety?	[2] CO3/BL3 [3] CO3/BL4
Q.5(c)	Describe causes of accidents at construction sites.	[5] CO3/BL3

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SEMESTER: V SESSION : MO/2022

FULL MARKS: 50

[5] CO2/BL3

[2]CO2/BL2 [3] CO2/BL3

[5]CO2/BL4
