

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATION)**

**CLASS: B.TECH/B.ARCH  
BRANCH: ALL**

**SEMESTER: V  
SESSION: MO/2022**

**SUBJECT: CE428 CONSTRUCTION MANAGEMENT**

**TIME: 2 HOURS**

**FULL MARKS: 25**

**INSTRUCTIONS:**

1. The total marks of the questions are 25.
  2. Candidates attempt for all 25 marks.
  3. Before attempting the question paper, be sure that you have got the correct question paper.
  4. The missing data, if any, may be assumed suitably.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q1 (a) Why is construction management needed?	[2]	1	2
Q1 (b) Discuss the difference between good project leader and poor project leader.	[3]	1	2
Q2 (a) Why are pure project organizations least common now a days?	[2]	1	2
Q2 (b) Discuss different hierarchies of management level.	[3]	1	2
Q3 (a) Write short notes on project cash flow diagram.	[2]	2	2
Q3 (b) Discuss the difference between preliminary estimate and detailed estimate of a particular project.	[3]	2	3
Q4 (a) Discuss about benefit cost ratio of public projects.	[2]	2	2
Q4 (b) A govt. is planning for hydraulic project that will also provide flood control, irrigation and recreation benefits. The established benefits and cost of the three alternatives are given in the Table 1. The interest rate are to be used for analysis is 5%. The life of each alternatives X, Y and Z are assumed to be as 50 years. Select the best alternative.	[3]	2	4

Table 1: (All values in Crores)

Alternatives	X	Y	Z
Initial cost	250.00	350.00	500.00
Annual power sales	10.00	12.00	18.00
Annual flood control	2.50	3.50	5.00
Annual irrigation benefit	3.50	4.50	6.00
Annual recreation benefits	1.00	2.00	3.50
Annual operation and maintenance	2.00	2.50	3.50

Q5 (a) Discuss about objectives of construction material management.	[2]	3	2
Q5 (b) What are the different functions of material management?	[3]	3	2

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