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

CLASS: B.TECH. SEMESTER: 7<sup>th</sup>
BRANCH: ALL SESSION: MO/2022

SUBJECT: PE211 ENGINEERING ECONOMY

TIME: 2 HOURS FULL MARKS: 25

## **INSTRUCTIONS:**

- 1. The total marks of the questions are 25.
- 2. Candidates attempt for all 25 marks.

computed.

formed?

Q5 (b)

types of bonds.

- 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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Q1	(a) (b)	explain the concept of cash flow diagram from borrower and lender viewpoint.								CO CO1	BL L2 L3
Q1	(D)	Construct a cash flow diagram that represents the amount of money that will be accumulated in 1 year from an initial investment of Rs.1000 at an interest rate of 6% per year compounded quarterly.								COT	L3
Q2 Q2	(a) (b)	and the second s							[2] [3]	CO1 CO1	L2 L3
Q3	(a)	What do you mean by an investment proposal? Mention the most common bases for comparison of alternative proposals.							[2]	CO2	L2
Q3	(b)	.'							[3]	CO2	L3
		End of year		0	1	2	3	4			
			P (in	-15000	9000	8000	10000	6000			
		Alternative Rs.)	Q (in	-20000	11000	10000	9000	8000			
Q4	(a)	What is annual equivalent amo		llent amo	unt? Expla	ain the impo	ortant featu	ires of annual	[2]	CO2	L2
Q4	(b)										L3

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Define mutually exclusive alternatives. How mutually exclusive alternatives are [3] CO2 L3

CO1

L2

Q5 (a) Define a "Bond" and explain the face value of a bond. Briefly explain different [2]