

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

**CLASS: BE
BRANCH: CIVIL**

**SEMESTER: V
SESSION : MO/2019**

SUBJECT : CE5007 CONSTRUCTION PLANNING AND MANAGEMENT

TIME: 1.5 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 30.
 2. Candidates may attempt for all 30 marks.
 3. In those cases where the marks obtained exceed 25 marks, the excess will be ignored.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. The missing data, if any, may be assumed suitably.
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- Q1 (a) Discuss present scenario of Indian construction industry. [2]
(b) Describe some of the tasks involved in the pre-project phase. [3]
- Q2 (a) Expand the terms: PPP, BOO, BOOT and BOLT [2]
(b) Draw a schematic diagram of a medium-size project organization. [3]
- Q3 (a) What is a cash-flow diagram? [2]
(b) An investor has to choose between two investment options: [3]
(i) Investing in a bond with 7% rate of return on an 8-yr investment.
(ii) Depositing Rs 6 lakh for first 3 yrs and earning Rs 4.0 lakh every year from the end of 4th yr to the end of 8th year.
Which option is more profitable?
- Q4 (a) Differentiate between scrap value and salvage value. [2]
(b) Describe break-even analysis. [3]
- Q5 (a) What are the advantages and disadvantages of a crawler tractor? [2]
(b) Describe the working of a double-acting hammer for pile driving. [3]
- Q6 (a) What is batching of cement concrete? [2]
(b) Describe some of the hoisting equipments used in construction industry. [3]

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