BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2023)

CLASS: B.ARCH   SEMESTER : Xth
BRANCH: ARCHITECTURE   SESSION : SP/2023

SUBJECT: AR552 CONSTRUCTION PROJECT MANAGEMENT
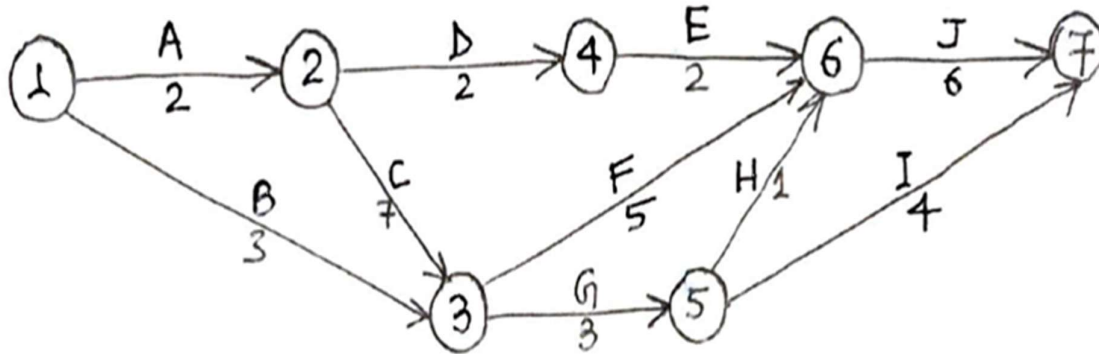TIME: 02 Hours   FULL MARKS: 25

INSTRUCTIONS:
1. The question paper contains 5 questions each of 5 marks and total 25 marks.
2. Attempt all questions.
3. The missing data, if any, may be assumed suitably.
4. **Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates**

			CO	BL
Q.1(a)	What is Construction Project Management and its triple constraint?	[2]	A	Lvl.1
Q.1(b)	Explain the different project management processes and its interrelationship.	[3]	B	Lvl.1

| Q.2(a) | Explain LINE OF BALANCE SCHEDULING TECHNIQUE and where is it useful? | [2] | A | Lvl.1 |
| Q.2(b) | Explain the different steps involved in Construction Project Planning. | [3] | B | Lvl.1 |

| Q.3(a) | Explain the Project Time Management and processes required to ensure timely completion of any construction project. | [2] | A | Lvl.2 |
| Q.3(b) | What is WBS and its possible ways to organize WBS? | [3] | B | Lvl.2 |

| Q.4(a) | Explain Lag and Overlap with respect to Project schedule? | [2] | A | Lvl.1 |
| Q.4(b) | Draw AOA and AON network diagramme for the project details given below. | [3] | C | Lvl.4 |

Activity	A	B	C	D	E	F	G	H
predecessor	-	-	A	A & B	C	C	D & E	F & G

| Q.5(a) | What is the total project duration, and free Float for Activity E for the given network diagramme? | [2] | A | Lvl.3 |
| Q.5(b) | What is the critical Path for the network diagramme given below? | [3] | C | Lvl.4 |