

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

**CLASS: B.Tech
BRANCH: CSE**

**SEMESTER : V
SESSION : MO/2025**

SUBJECT: CS343 SYSTEM PROGRAMING

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
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		CO	BL
Q.1(a)	Define the system software? Explain with evolution of system software.	[2]	01 01
Q.1(b)	Give the overview of the machine language.	[3]	02 03
Q.2(a)	Discuss on Interpreter and compiler.	[2]	01 02
Q.2(b)	Differentiate between RISC and CISC Machine.	[3]	01 02
Q.3(a)	Define the Assembler and explain with popular Assembler.	[2]	01 01
Q.3(b)	How many elements are existing in Assembly language? Explain.	[3]	02 05
Q.4(a)	Differentiate between Assembly language and Machine language.	[2]	02 05
Q.4(b)	Comparison in between Single Pass Assemble and Two Pass Assembler.	[3]	02 04
Q.5(a)	Define the loader and loading operation with diagram.	[2]	03 01
Q.5(b)	Which type of loader is executed when a system first turned on or restarted? Explain.	[3]	03 02

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