

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(MID SEMESTER EXAMINATIONS/2025)

CLASS: BCA  
BRANCH: BCA

SEMESTER : VI  
SESSION : SP/2025

SUBJECT: CA361 SYSTEM PROGRAMMING

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)	Briefly discuss compiler and loader with examples.	[2] 1	2
Q.1(b)	What is machine language? Explain it with examples	[3] 2	3,4
Q.2(a)	Define different components of programming system.	[2] 1	1
Q.2(b)	Write the role of Macros in any programming language with examples	[3] 2	2
Q.3(a)	Write the features of operating system with examples	[2] 2	2
Q.3(b)	What do you mean by evaluation of Operating System? Explain it.	[3] 3	3,4
Q.4(a)	Briefly discuss role of BIOS boot process with steps	[2] 3	3
Q.4(b)	Write the working procedure of stack with a suitable diagram	[3] 4	4
Q.5(a)	How does Assembly language work? Explain it	[2] 3	4
Q.5(b)	Write features of Assembly language	[3] 2	1

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