

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI**  
**(MID SEMESTER EXAMINATION SP/2024)**

**CLASS:** BCA  
**BRANCH:** BCA

**SEMESTER :** VI  
**SESSION :** SP/2024

**SUBJECT: CA327 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)	Discuss the evolution of the components of the programming system.	[2] 1	1
Q.1(b)	What is the system software? Discuss	[3] 2	2
Q.2(a)	Define the terms Linker and Loader.	[2] 2	2
Q.2(b)	Give the overview of the machine language.	[3] 2	3
Q.3(a)	What is the operating system? Explain the evolution.	[2] 1	2
Q.3(b)	Write and explain the features of the operation system.	[3] 2	3
Q.4(a)	What is the BIOS boot process? Explain	[2] 2	2
Q.4(b)	What is the instruction? Discuss the instruction accessing modes.	[3] 2	3
Q.5(a)	What is the assembly language? Write and explain the features.	[2] 1	1
Q.5(b)	Write the general syntax of the assembly statement. Also write and explain the statements types.	[3] 2	3

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