

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2025)**

CLASS: BTech
BRANCH: CSE (Minor)

SEMESTER : VI
SESSION : SP/2025

SUBJECT: IT263 OBJECT ORIENTED PROGRAMMING AND DESIGN PATTERN
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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Q.1(a)	Explain the features of Object Oriented Programming.	[2]	CO - 1	BL-2
Q.1(b)	Write a program in Java to reverse a string.	[3]	CO-4	BL-3
Q.2(a)	Differentiate between constructor and method.	[2]	CO - 1	BL-4
Q.2(b)	Explain method overloading with example.	[3]	CO-2	BL-2
Q.3(a)	"Static methods can not access Instance variables" - justify.	[2]	CO-1	BL-5
Q.3(b)	Explain the use of ArrayList with an example.	[3]	CO-2	BL-2
Q.4(a)	Define scope of a variable.	[2]	CO-1	BL-1
Q.4(b)	Write a program in Java to find out factorial of a number using command line arguments.	[3]	CO-2	BL-3
Q.5(a)	Explain the use of 'final' with example.	[2]	CO-1	BL-2
Q.5(b)	Describe Garbage collection method with example.	[3]	CO-2	BL-2

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