

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

**CLASS: BTECH  
BRANCH: ECE**

**SEMESTER : VI<sup>th</sup>  
SESSION : SP/2025**

**SUBJECT: IT263 OBJECT ORIENTED PROGRAMMING & DESIGN PATTERN**

**TIME: 3 Hours**

**FULL MARKS: 50**

**INSTRUCTIONS:**

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
  2. Attempt all questions.
  3. The missing data, if any, may be assumed suitably.
  4. Before attempting the question paper, be sure that you have got the correct question paper.
  5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	Explain the basic features of Object Oriented Programming.	[5]	1 Understand
Q.1(b)	Write a program in Java to reverse a String.	[5]	4 Apply
Q.2(a)	“Static method cannot access instance variables”-Justify.	[5]	1 Evaluate
Q.2(b)	Differentiate between Array and ArrayList.	[5]	2 Analyse
Q.3(a)	Write a program in Java to implement Polymorphism.	[5]	2 Apply
Q.3(b)	Describe different types of Inheritance with example.	[5]	1 Remember
Q.4(a)	Write a program in Java to create your own Exception.	[5]	2 Create
Q.4(b)	Explain Layout Managers with example.	[5]	3 Understand
Q.5(a)	Explain the process of creating child threads.	[5]	5 Understand
Q.5(b)	Describe lambda expressions with example.	[5]	1 Remember

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