

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

CLASS: BCA
BRANCH: COMPUTER SCIENCE

SEMESTER : I
SESSION : MO/2025

SUBJECT: CA25107 FUNDAMENTALS OF COMPUTER SCIENCE

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)	Explain how computers are useful in your everyday life.?	[2] 1	1
Q.1(b)	Broadly classify computers based on their speed, the amount of data they can hold and price.?	[3] 1	2
Q.2(a)	What is the relationship between software and hardware.?	[2] 1	1
Q.2(b)	How is application software different from system software.?	[3] 1	2
Q.3(a)	Explain the role of operating system.?	[2] 2	1
Q.3(b)	Discuss the benefits of using LINUX operating system.?	[3] 2	1
Q.4(a)	How is flowchart different from algorithms.?	[2] 2	2
Q.4(b)	Briefly mention all the steps involved in program development cycle.?	[3] 2	1
Q.5(a)	Compare various number systems on the basis of their base or radix.?	[2] 3	1
Q.5(b)	Convert	[3] 3	3
	(i) Decimal (169) ₁₀ to its binary equivalent.?		
	(ii) Binary (10110101) ₂ to its decimal equivalent.?		

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