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

CLASS: BCA   SEMESTER :1ST
BRANCH: BCA   SESSION : MO/2024

SUBJECT: CN107 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**

			CO	BL
Q.1(a)	Explain the characteristics of computer.	[2]	1	2
Q.1(b)	Describe classification of computer in brief.	[3]	1	2
Q.2 (a)	Identify the relation between Software and Hardware.	[2]	1	1
Q.2(b)	Describe System Software and its types.	[3]	1	2
Q.3 (a)	Differentiate Compiler and Interpreter.	[2]	2	4
Q.3(b)	Define Operating System. Explain the functions of Operating System in a computer.	[3]	2	5
Q.4(a)	Define any two different pseudo code structures with illustrations.	[2]	2	2
Q.4(b)	Describe Development life cycle of a program.	[3]	2	2
Q.5(a)	Summarize base of Number System with examples.	[2]	3	2
Q.5(b)	Convert :	[3]	3	3

Q.5(b) Convert :
   i. $(A1E)_{16}$ into decimal form
   ii. $(567)_8$ into hexadecimal form

::::::23/10/2024::::::E