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

CLASS: BBA   SEMESTER : 1st
BRANCH: BBA   SESSION : MO/2023

SUBJECT: MN101 FUNDAMENTALS OF COMPUTING

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.

			CO	BL
Q.1(a)	Draw a block diagram to illustrate the basic organization of a computer system and explain the functions of the various unit.	[5]	1	2
Q.1(b)	List and explain some important characteristics of a computer.	[5]	1	3
Q.2(a)	Find decimal equivalent of following numbers. I) $(4A30B)_{16}$ II) $(110011.011)_2$	[5]	2	3
Q.2(b)	Convert the following hexadecimal numbers to octal numbers I) $(A01B)_{16}$ II) $(DF201)_{16}$	[5]	3	2
Q.3(a)	Multiply binary numbers $(01101)_2$ and $(1001)_2$	[5]	3	3
Q.3(b)	Divide $(0110111)_2$ by $(0111)_2$	[5]	2	4
Q.4(a)	Write shorts notes on i) Magnetic Hard Disk ii) Magnetic Tape Drives iii) Floppy Disk Drives iv) CDROM v)Cache Memory	[5]	2	3
Q.4(b)	What will be the storage capacity of double-sided disk (in Megabytes) that has 400 tracks, 16 sector per track and 512 bytes per sector?	[5]	4	2
Q.5(a)	What is computer network? Give advantages of computer network.	[5]	1	2
Q.5(b)	Define multiprogramming. Explain how multiprogramming ensures effective utilization of main memory and CPU.	[5]	3	4

::::::28/11/2023 E:::::