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

CLASS: BTECH SEMESTER: VIIth
BRANCH: MECHANICAL SESSION: MO/2022

SUBJECT: ME411 COMPUTER AIDED DESIGN

TIME: 2 HOURS FULL MARKS: 25

INSTRUCTIONS:

- 1. The total marks of the questions are 25.
- 2. Candidates attempt for all 25 marks.
- 3. Before attempting the question paper, be sure that you have got the correct question paper.
- 4. The missing data, if any, may be assumed suitably.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

.....

Q1 Q1	(a) (b)	What are the advantages of CAD over conventional design. Describe the product life cycle with block diagram.	[2] [3]	CO CO1 CO1	BL L1 L1
Q2 Q2	` ′	Explain in brief the aids and tools used in CAD systems. Describe with neat sketches about input and output devices?	[2] [3]	CO1	L2 L1
Q3 Q3	(a) (b)		[2] [3]	CO2 CO2	L2 L2
Q4 Q4	` '	Explain the properties of Bezier curve. Draw the curves for cubic B-spline blending functions.	[2] [3]	CO2 CO2	L2 L2
Q5 Q5	(a) (b)	Explain the parametric continuity conditions. Explain the properties of NURBS.	[2] [3]	CO2 CO2	L2 L2

::::: 27/09/2022 E :::::