CMR
INSTITUTE OF
TECHNOLOGY

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CMRIT

Internal Assesment Test – 1

Sub: Computer Aided Electrical Drawing (Professional Elective)					Code: 18EE643
Date: 25/04/2023	Duration: 90 mins	Max Marks: 50	Sem: 6	Section:	A&B

Answer ANY One question. Explain your notations explicitly and clearly.
Sketch figures wherever necessary. Use **AutoCAD Software** for drawing. Good luck!

	Marks	OBE	
		CO	RBT
Q1. Draw the developed winding diagram of the armature of the DC machine with the following data. Number of poles = 4; Number of slots = 12; Type of winding: Simple wave. Show on the developed winding diagram, the poles, polarity of poles, direction of rotation of the armature, direction of emf induced/current in the conductors, sequence diagram, and position & polarity of brushes.	[50]	CO1	L3
OR			
Q2. Draw the developed winding diagram of a 6 pole, 36 slot DC generator. Fix the poles, draw the sequence diagram, fix the position and polarity of brushes, and mark the direction of rotation of armature. Type of winding is lap winding.	[50]	CO1	L3

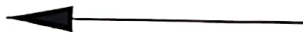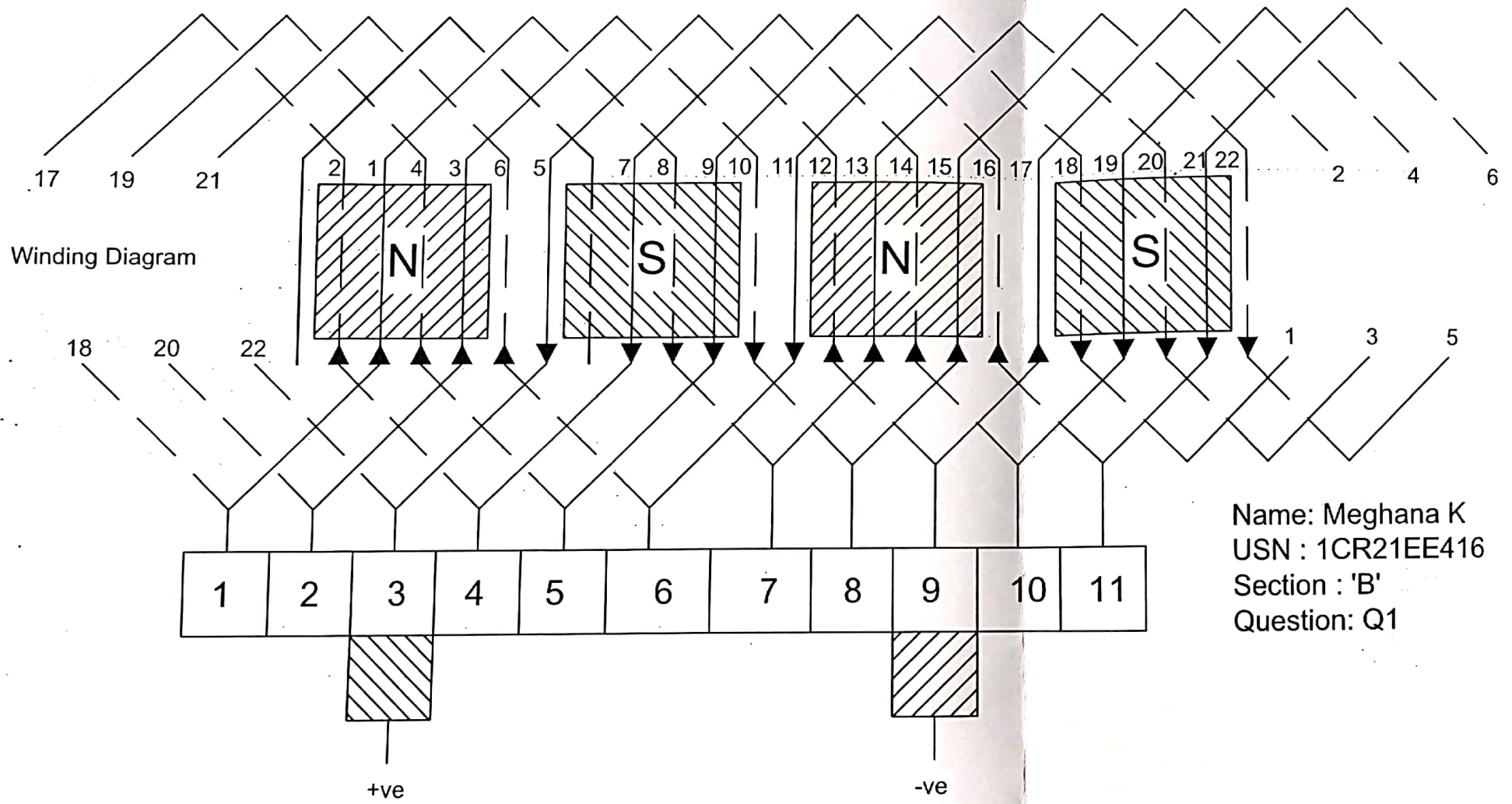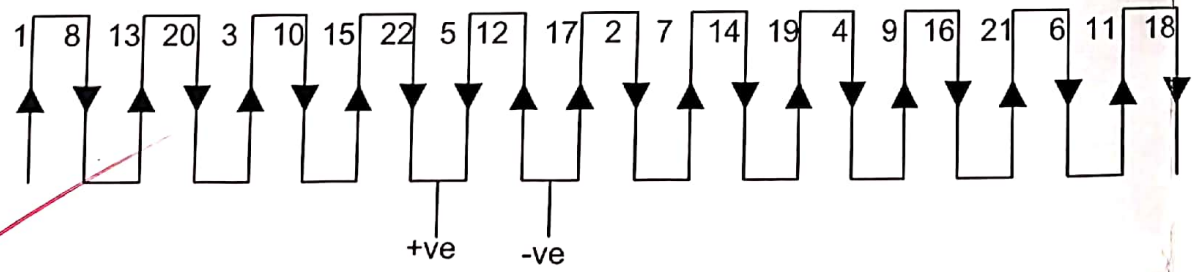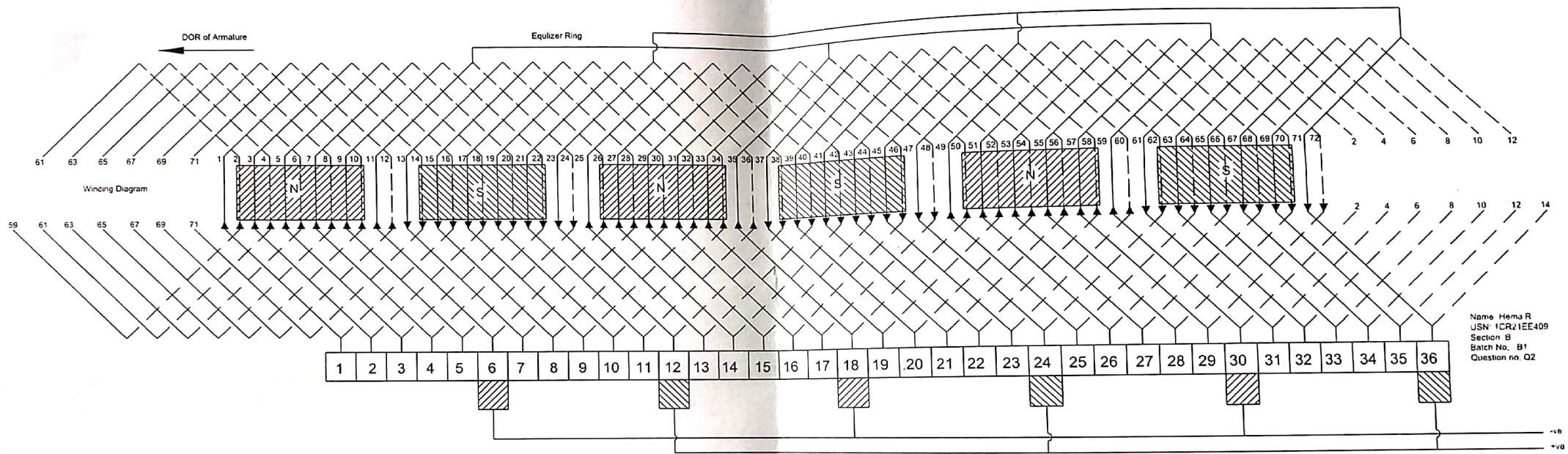CI   CCI   HOD

DOR of Armature

Winding Diagram

Sequence Diagram

Name: Meghana K
USN : 1CR21EE416
Section : 'B'
Question: Q1

Winding Diagram

DOR of Armature

Equlizer Ring

N S N S N S

Sequence Diagram

Name: Hema R
USN: 1CR21EE409
Section: B
Batch No.: B1
Question no. Q2