

Internal Assessment Test – 3

Sub: Computer Aided Electrical Drawing (Professional Elective)					Code: 18EE643	
Date: 05/07/2023	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 to 1/4 th scale the sectional end view (right half in section) of a 50 kW dc generator with the following dimensions. i) Thickness of yoke = 5 cm; ii) No. of main poles = 4; iii) Total height of the pole = 14 cm (including pole shoe); iv) Width of the main pole = 12 cm; v) Main pole winding = 7 cm x 3 cm; vi) No. of inter poles = 4; vii) Inter pole section = 10 cm x 4 cm; viii) Air gap = 0.4 cm; ix) Pole arc = 63% of pole pitch; x) External diameter of armature stampings = 38 cm; xi) Internal diameter of armature stampings = 20 cm; xii) Size of slots = 3.5 cm x 1.5 cm; xiii) No. of slots = 32; xiv) Shaft diameter = 6 cm; xv) Inter pole winding = 6 cm x 2 cm. Armature stampings are mounted on the cast iron spider of external diameter 20 cm.					[50]	CO4 L3
OR						
Q2. Draw to scale a) half sectional end view b) front view of alternator with the following data: Diameter of shaft = 7.6 cm; Height of pole = 7.6 cm; Diameter of frame (outer) = 92 cm; Length of yoke = 22 cm; Diameter of the rotor = 46 cm; Outer diameter of the stator = 76 cm; Number of poles = 10; and Length of stator = 16 cm.					[50]	CO5 L4

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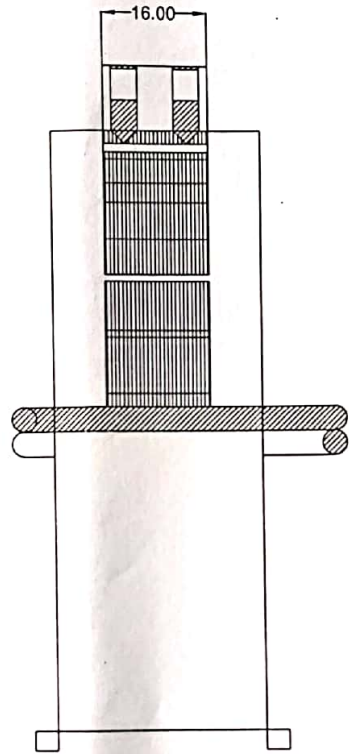
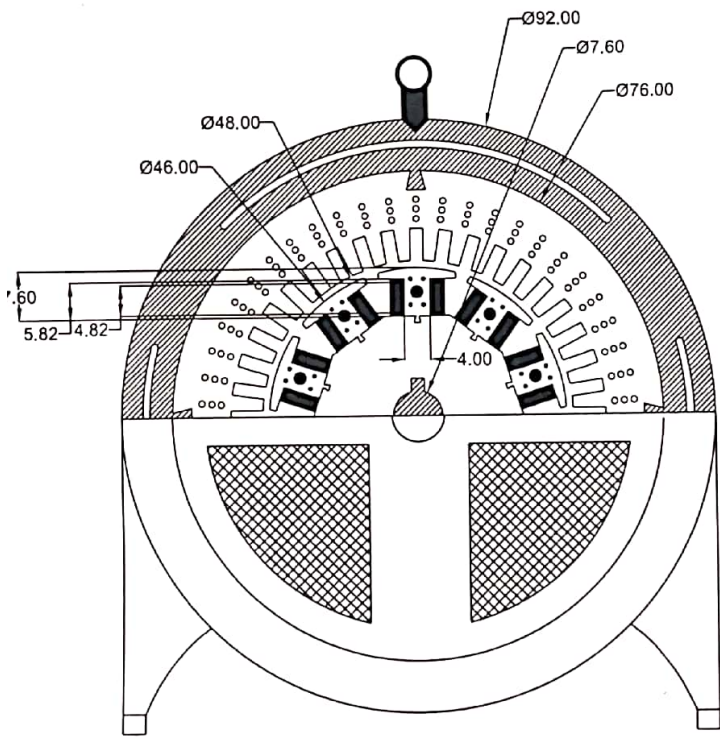
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 ASSIGNMENT 3
 QUESTION 3