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	Reg. No. :
	Question Paper Code: 53687
	B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.
	Seventh Semester
	Robotics and Automation Engineering
	RO 6703 – TOTALLY INTEGRATED AUTOMATION
	(Regulation 2013)
Time	e: Three hours Maximum: 100 marks
	Answer ALL questions.
	PART A — $(10 \times 2 = 20 \text{ marks})$
1.	List the advantages of Totally Integrated Automation.
2.	PAC is preferred for process industries. Justify.
3.	Identify few requirements of HMI for Industrial Automation.
4.	What are panel PCs?
5.	Highlight the importance of tags with suitable examples.
6.	List the basic functions of SCADA.
7.	Give the need for remote telemetry unit in SCADA data communication?
- 8.	What is meant by OLE/OPC specification?
9.	Mention the areas to be concentrated by the operator interface in a distributed control system.
10.	Contrast the features of distributed Control System and SCADA system.
	PART B — (5 × 13 = 65 marks)
11.	(a) Briefly explain the types, networks and communication standards of programmable automation controllers with neat sketch.
	Or
	(b) Demonstrate with the help of flow diagrams a Vertical Integrated Structure?

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