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Results and Many more... Reg. No.: Question Paper Code: 70285 M.E./M.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019 First Semester CAD/CAM CC 5101 - COMPETITIVE MANUFACTURING SYSTEMS (Regulations 2017) Time: Three Hours Maximum: 100 Marks Answer ALL questions PART - A (10×2=20 Marks) 1. What are the benefits of flexible fixture? 2. Write the important reasons for which the manufacturing processes are automated. 3. What is production flow analysis? 4. What are the three methods followed to create part families in industrial environment? 5. What are the principal data files that are required for operating a FMS? 6. Mention the application of simulation software in manufacturing systems. 7. What is meant by lean manufacturing? Write the benefits of Lean manufacturing. 8. Write a short notes on : Jidoka. 9. What is JIT? 10. What are the strategies to be considered in a line flow? PART-B (5×13=65 Marks) 11. a) With the aid of a schematic diagram, describe the construction and working of an adaptive control machining system and also discuss about its applications. (OR) b) With neat sketch, explain the various types of industrial robots and its applications.

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12. a) Enumerate any six major benefits of a and coding system of Group Technol	a well designed OPITZ parts classification ogy.
(OR)	
b) Explain in detail about the various c	components of FMS with an example.
13. a) i) Describe the method of applying	simulation while designing a FMS. (6)
ii) Describe the CAD/CAM features	considered while developing a FMS. (7)
(OR)	Act Continued to the Co
data system.	v data flow is carried out in manufacturing
14. a) Enumerate the six big losses consider Maintenance (TPM) in manufacturing	red while implementing Total Productive ng industries.
(OR)	
<ul> <li>b) Describe the method of implementing I industry.</li> </ul>	Poka-Yoke in an automobile manufacturing
15. a) Write a short notes on:	
i) Small lot sizes.	(3)
ii) Work station loads.	(4)
iii) Preventive maintenance.	(6)
(OR)  b) With the aid of sketches, explain the tool manufacturing industry.	e working of Kanban system in machine
	T – C (1×15=15 Marks)
16. a) i) Explain any six control strategies	s of supervisory computer control. (8)
ii) Describe the basic components of	
(OR)	a manifest with system.
b) Explain in detail about the 5S system	m used in manufacturing industry.

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