

Subject Code: 19062D09

R19

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM  
(AUTONOMOUS)**

**M.Tech II Semester Regular/Supplementary Examinations, July – 2024**

**FLEXIBLE MANUFACTURING SYSTEMS  
(CAD/CAM)**

**Time: 3 hours**

**Max. Marks: 60**

**Answer any FIVE questions  
All questions carry EQUAL marks**

**5X12=60**

Q.NO.		Question	BTL	CO	Marks
1.	a.	Explain about the components of FMS	K2	CO1	6M
	b.	List the applications of FMS	K2	CO1	6M
2.	a.	Explain the objectives of the FMS	K3	CO1	6M
	b.	List out the merits and demerits of FMS	K2	CO1	6M
3	a.	Classify FMS layouts	K2	CO2	6M
	b.	Explain loop type FMS layout with neat sketch	K3	CO2	6M
4	a.	Explain robot centric type FMS layout with neat sketch	K3	CO2	6M
	b.	List the salient features of FMS layout	K1	CO2	6M
5.	a.	Compare machining center and turning center	K4	CO3	6M
	b.	Explain the features of machining centers	K3	CO3	6M
6.	a	Brief out the CMM	K2	CO3	6M
	b	Explain AGV in detail	K3	CO4	6M
7	a	Compare different material handling systems	K4	CO4	6M
	b	Brief out scheduling and loading of FMS	K3	CO4	6M
8	a	Compare analytical and simulation models of FMS	K4	CO5	6M
	b	Explain the importance of production planning and control in FMS	K3	CO4	6M