



17	a) Describe the matrix formulation approach used in GT for part classification.	5M	4	L3
	b) Describe the role of a knowledge-based system in group technology applications.	5M		L3
	OR			
18	a) What are the key factors to consider in the economic justification of FMS?	5M	4	L3
	b) Explain the concept of Group Technology and its role in FMS.	5M		L2
19	a) Describe in detail the applications of FMS in machining and fabrication industries	5M	5	L3
	b) What is the role of artificial intelligence in flexible manufacturing systems?	5M		L2
	OR			
20	Discuss the key design philosophies and structural characteristics expected in factories of the future.	10M	5	L4