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**R-17 (SS)**

**Code: 5G575**

IV B.Tech. I Semester Supplementary Examinations July 2021

**Advanced Manufacturing Systems**

( Mechanical Engineering )

Max. Marks: 70

Time: 3 Hours

Answer any five full questions by choosing one question from each unit ( 5x14 = 70 Marks )

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**UNIT-I**

1. What are the strategies of a Manufacturing system? Explain in detail? 14M

**OR**

2. a) What are the components of manufacturing system? State its Limitations of traditional manufacturing systems. 7M  
b) Discuss various types of production systems. 7M

**UNIT-II**

3. a) What is aggregate production planning? State the elements associated with it. 7M  
b) Discuss the importance of master production schedule 7M

**OR**

4. a) What are Just-in-time production systems - Principles of JIT 7M  
b) Discuss pull system and push system of production control. 7M

**UNIT-III**

5. a) compare of mass production and lean production 7M  
b) What is agile manufacturing& state the principles of agile manufacturing 7M

**OR**

6. State the features for production system towards agility in areas of product design, marketing and production operations. 14M

**UNIT-IV**

7. a) What is Flexible Manufacturing System? And state the elements of FMS 7M  
b) Discuss the aspects of Computer Control in FMS. 7M

**OR**

8. a) Discuss the various Automated Material Handling in FMS 7M  
b) Discuss AS/RS in manufacturing? 7M

**UNIT-V**

9. Compare Decision Support System – Knowledge based system in Manufacturing 14M

**OR**

10. a) Discuss the role of Machine Vision in Factory of the future 7M  
b) Discuss various aspects of computer assisted Inspection systems in FMS 7M

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