

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

Seventh Semester B.Tech Degree Examination (Regular and Supplementary), December 2020

Course Code: AU463**Course Name: OPERATION MANAGEMENT IN AUTO INDUSTRY**

Max. Marks: 100

Duration: 3 Hours

PART A*Answer any three full questions, each carries 10 marks.*

Marks

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| 1 | a) What do you understand by 'make or buy' decision making? | (5) |
| | b) Discuss about the manufacturing systems set-up. | (5) |
| 2 | a) Analyse the various technologies for materials applied to the construction of vehicles in detail. | (5) |
| | b) Write short note on product/process information technology system. | (5) |
| 3 | a) Explain the methodology of manufacturing engineering planning to execute a project. | (5) |
| | b) What do you understand by man-machine system? | (5) |
| 4 | a) What is meant by standard working time? | (5) |
| | b) Explain the task assigning procedure in detail. | (5) |

PART B*Answer any three full questions, each carries 10 marks.*

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| 5 | a) Give the relationship between reliability and maintainability of equipment. | (5) |
| | b) Discuss breakdown and preventive maintenance. | (5) |
| 6 | a) What is meant by tools and consumables management? Why it is necessary? | (5) |
| | b) What is meant by autonomous maintenance? | (5) |
| 7 | a) Explain logistic flow in supply chain in detail. | (5) |
| | b) What are the inventory management techniques used in industries? Explain any one in detail. | (5) |
| 8 | a) Explain the factors to be considered while selecting material handling equipment? | (5) |
| | b) Explain production and delivery planning in supply chain. | (5) |

PART C

Answer any four full questions, each carries 10 marks.

- 9 a) Describe the characteristics and elements of Just-in-time production. (5)
b) Elaborate the key performance indicators used in logistics. (5)
- 10 a) What is meant by process lead time? (5)
b) What is the importance of service level indicators in automotive service industry? (5)
- 11 a) Analyse the methods involved to minimise the order execution lead time. (5)
b) Write short note on risk indicators of inventory obsolescence. (5)
- 12 a) What are the functions of purchasing? Explain in detail. (5)
b) Explain the importance of setting a purchasing policy. (5)
- 13 a) What is meant by supply networks? Explain the need for management of suppliers' network. (5)
b) Explain e- procurement in detail and mention its benefits. (5)
- 14 a) Discuss about the purchase effectiveness. (5)
b) Explain about the quality management system. (5)
