

Reg No.: _____

Name: _____

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
EIGHTH SEMESTER B.TECH DEGREE EXAMINATION, MAY 2019

Course Code: ME476

Course Name: Material Handling & Facilities Planning

Max. Marks: 100

Duration: 3 Hours

PART A

Answer any three full questions, each carries 10 marks.

Marks

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|---|----|---|------|
| 1 | a) | Explain product and process layouts with examples.. | (4) |
| | b) | Draw a flowchart of systematic layout patterning plan for a manufacturing industry. | (6) |
| 2 | a) | Explain the significance of From-To chart. | (5) |
| | b) | Explain largest candidate rule technique for line balancing | (5) |
| 3 | a) | Briefly explain automated layout design programme. | (5) |
| | b) | Explain any four important environmental aspects for layout design in industry. | (5) |
| 4 | | Explain different types of plant services in industries. | (10) |

PART B

Answer any three full questions, each carries 10 marks.

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|---|----|---|------|
| 5 | | Explain environmental causes of accidents. What are the corrective actions to eliminate them? | (10) |
| 6 | | What is air pollution? Name the various sources of air pollution. | (10) |
| 7 | | Explain the factors that influence the selection of material handling equipment? | (10) |
| 8 | a) | List any two functions of material handling. | (2) |
| | b) | List any four advantages of a good handling system. | (4) |
| | c) | Discuss the application of fork lift truck. | (4) |

PART C

Answer any four full questions, each carries 10 marks.

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| 9 | | Explain types of storage systems with examples. | (10) |
| 10 | | Explain the basic material handling methods? | (10) |
| 11 | | Explain the equipment oriented and material oriented handling systems. | (10) |
| 12 | | Explain the design methodology followed for different material handling equipments | (10) |
| 13 | | Explain hoppers and crushers used in material handling. | (10) |
| 14 | | Explain preventive and breakdown maintenance practices. | (10) |
