

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2019

PRODUCTION/OPERATIONS MANAGEMENT

[Time : 3 hours]

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

I Answer *all* questions in one or two sentences. Each question carries 2 marks.

1. Define work measurement.
2. Define capacity.
3. Define value analysis.
4. State the meaning of the term network.
5. Recall the meaning of work measurement.

(5×2 = 10)

PART — B

(Maximum marks : 30)

II Answer any *five* of the following questions. Each question carries 6 marks.

1. Explain Therbligs.
2. Describe aggregate planning.
3. Explain codification.
4. Describe project management.
5. Discuss ABC technique of inventory control.
6. Elucidate the elements of operation strategy.
7. Describe sales forecasting.

(5×6 = 30)

PART — C

(Maximum marks : 60)

(Answer *one* full question from each unit. Each full question carries 15 marks.)

UNIT — I

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| III | (a) Distinguish between production management and operations management. | 7 |
| | (b) Discuss the different types of process charts. | 8 |

OR

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| IV | (a) Explain the different types of production system. | 9 |
| | (b) Discuss the different types of plant layout. | 6 |

UNIT — II

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| V | (a) Explain master production scheduling. | 5 |
| | (b) Discuss master production scheduling in produce to stock and produce to order for firms. | 10 |

OR

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| VI | (a) Describe aggregate plans for services. | 6 |
| | (b) Explain mathematical models for aggregate planning. | 9 |

UNIT — III

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| VII | (a) Discuss the procurement procedure. | 8 |
| | (b) Explain simplification. | 7 |

OR

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| VIII | (a) Describe various methods of purchasing. | 8 |
| | (b) Explain five 'R' principles of purchasing. | 7 |

UNIT — IV

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| IX | (a) Explain Critical Path Method. | 5 |
| | (b) Discuss the steps in Programme Evaluation and Review Technique. | 10 |

OR

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| X | (a) Describe the characteristics of project. | 9 |
| | (b) Discuss the objectives of network analysis. | 6 |
