

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — APRIL, 2018

INDUSTRIAL ENGINEERING

[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. Explain the estimation.
2. Define Range.
3. What is therbligs ?
4. Define plant layout.
5. What is process planning ?

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Compare production and productivity.
2. Explain Ogives curve.
3. What are the factors affecting product design ?
4. Explain flow diagram.
5. Give details of quality characteristics.
6. Explain the duties of an estimating department
7. Explain the advantages of work study.

(5×6 = 30)

PART — C

Marks

(Maximum marks : 60)

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

UNIT — I

- III (a) Explain different types of production system. 8
 (b) Explain briefly the various factors influencing the plant layouts. 7

OR

- IV (a) Explain break even analysis. 8
 (b) What are the benefits of Production planning and control. 7

UNIT — II

- V (a) Explain the procedure for conduct of method study. 8
 (b) Explain the work sampling and its needs. 7

OR

- VI (a) Explain work measurement and its objectives. 8
 (b) Explain the terms MTM, Synthesis using the standard data and Analytical estimating. 7

UNIT — III

- VII (a) Distinguish patrolling inspection and centralized inspection. 8
 (b) Which are the advantages of statistical quality control. 7

OR

- VIII (a) Compare inspection and quality control. 8
 (b) Compare attribute and variable types of data. 7

UNIT — IV

- IX (a) Explain different method of calculating depreciation. 8
 (b) Explain multiple sampling plan. 7

OR

- X (a) Explain various classification of cost. 8
 (b) Explain the terms lot size, sample size and acceptance Number. 7