

TED (15) – 3052

(REVISION — 2015)

Reg. No.

Signature

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2017

PRODUCTION PROCESS OF AUTOMOBILE COMPONENTS

[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 machining Allowance.
2. State hot working.
3. Define welding.
4. Define crater.
5. List any four types of grinding wheel.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Explain split pattern.
2. Write short note of Dry sand mould.
3. Explain cold-wire drawing.
4. Write a note on forgeability.
5. Explain the types of flames in gas welding.
6. Write a note on lathe bed.
7. Explain gear hobbing.

(5×6 = 30)

PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Describe shell moulding process with sketches. 8
 (b) Discuss about permanent mould casting. 7

OR

- IV (a) Explain centrifugal casting with sketch. 8
 (b) Explain green sand moulding. 7

UNIT — II

- V (a) Describe hot rolling with suitable sketches. 8
 (b) Write a note on cold working. 7

OR

- VI (a) Explain the Bessemer process. 8
 (b) Explain the open hearth process. 7

UNIT — III

- VII (a) Explain :
 (i) Soldering (ii) Brazing 8
 (b) Describe the arc welding with ac and dc. 7

OR

- VIII (a) Explain the Gas Metal Arc (MIG) welding. 8
 (b) Describe the Carbon Arc welding. 7

UNIT — IV

- IX (a) Explain the carriage with a neat sketch. 8
 (b) Describe the thread cutting with sketch. 7

OR

- X (a) With a neat sketch describe the function of principal parts of a shaper. 8
 (b) Sketch and explain hydraulic shaper mechanism. 7
