

TED (15) – 3052

Reg. No.

(REVISION — 2015)

Signature

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

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. State any two disadvantages of wood pattern.
2. Define the term hot die forging.
3. Define the term autogenous welding.
4. Write the shielding gases used in Gas Metal Arc Welding.
5. Identify the method of gear hobbing.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Point out the features of follow board pattern.
2. Describe about shake allowance.
3. Explain the Bessemer process for manufacturing steel.
4. Outline the working of board hammer for forging operations.
5. Discuss the process of submerged arc welding.
6. Write short note about head stock of a lathe.
7. Summarize the working of shaper machine.

(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) Write short notes about :
- (i) Cope and drag pattern (ii) Match plate pattern 8
- (b) Discuss the process of hot chamber die casting. 7

OR

- IV (a) Outline the shell molding process. 8
- (b) Justify the reasons for using cast iron and aluminium alloy for casting cylinder block. 7

UNIT — II

- V (a) Differentiate between hot rolling and cold rolling. 8
- (b) Summarize the process of indirect extrusion. 7

OR

- VI (a) Point out the significance of rolling operation. 8
- (b) Explain about drawing operation. 7

UNIT — III

- VII (a) With a figure, describe Gas Tungsten Arc Welding. 8
- (b) Write a short note about the types of gas welding flames. 7

OR

- VIII (a) Discuss about Resistance Spot Welding. 8
- (b) Outline the method of brazing operation. 7

UNIT — IV

- IX (a) Point out the salient features of CNC machines. 8
- (b) Sketch a drilling machine and mark the parts. 7

OR

- X (a) Comprehend the parts of a slotter machine. 8
- (b) Summarize the type of grinding machines. 7