

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

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 Distortion or Camber allowance.
2. Define hot rolling.
3. State soldering.
4. Define arc length.
5. Name two types of grinding machines, according to the quality of surface finish.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. List the six types of pattern materials.
2. Explain green sand mould.
3. Explain shot peening.
4. Explain seam welding.
5. Write a note on Brazing.
6. Describe the NC machine.
7. Write a note on gear milling process.

(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) Explain the die casting with suitable sketches. 8
 (b) Explain the permanent mould casting. 7

OR

- IV (a) Explain the shell moulding. 8
 (b) Describe the plaster moulding and its advantages. 7

UNIT — II

- V (a) Explain the squeezing. 8
 (b) Describe the cold extrusion. 7

OR

- VI (a) Explain the L-D process. 8
 (b) Write a short note on steel and steel making processes. 7

UNIT — III

- VII (a) Explain the thermit welding. 8
 (b) Describe the Laser Beam welding. 7

OR

- VIII (a) Explain the Gas Tungsten Arc welding. 8
 (b) List the name and function of gas welding equipments. 7

UNIT — IV

- IX (a) Explain the tailstock with a neat sketch. 8
 (b) Explain with sketch, the single screw tool post. 7

OR

- X (a) With a neat sketch, explain the parts of a slotting machine. 8
 (b) Explain the crank and slotted lever mechanism. 7
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