

THIRD SEMESTER DIPLOMA EXAMINATION IN AUTOMOBILE
ENGINEERING—OCTOBER, 2014

PRODUCTION PROCESS OF AUTOMOBILE COMPONENTS

[Time : 3 hours

(Maximum marks : 100)

PART—A

(Maximum marks : 10)

Marks

I Answer the following questions in one or two sentences. Each question carries 2 marks.

1. Give the reason for providing allowances in a pattern.
2. Give the types of pressure die casting.
3. Define closed die forging.
4. Define welding.
5. Define the process counter-boring.

(5×2=10)

PART—B

(Maximum marks : 30)

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

1. Write short notes on metal patterns.
2. Discuss about sweep pattern.
3. Discuss about LD process.
4. Discuss the salient features of blanking operation.
5. Discuss briefly about carbon arc welding.
6. Discuss how thread cutting can be done on a lathe.
7. Compare between shaper and planer.

(5×6=30)

PART—C

(Maximum marks : 60)

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

UNIT—I

III Discuss in detail about gravity die casting. Write its advantages and disadvantages. 15

OR

	Marks
IV Write a note about the different types of centrifugal casting processes.	15
UNIT—II	
V (a) Discuss about the manufacturing process of steering column.	8
(b) Explain about Bessemer process for the manufacturing of steel.	7
OR	
VI (a) Discuss about forging process.	8
(b) Discuss about direct extrusion.	7
UNIT—III	
VII (a) Compare between dc arc welding and ac arc welding.	8
(b) Discuss about the various flames used in gas welding.	7
OR	
VIII (a) Write a note about seam welding.	8
(b) Discuss the various types of weld joints with the help of figure.	7
UNIT—IV	
IX Discuss the various methods of taper turning on a lathe.	15
OR	
X (a) Discuss about the operations that can be performed on a slotter machine.	8
(b) Discuss the 'crank and slotted lever mechanism' used in a shaper.	7

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