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(REVISION — 2015)	26	Si	gnature

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

PRODUCTION PROCESS OF AUTUMOBILE 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? marks.
 - Identify a sweep pattern.
 - 2. State the term extrusion.
 - Define fusion welding.
 - Write down the chemical equation for thermit welding.
 - Write the purpose of a surface grinding machine.

 $(5 \times 2 - 10)$

PART — E

(Maximum marks: 30)

- II Auswer any five of the following questions. Each question carries 6 marks.
 - Describe dry sand moulding.
 - Write a short note on semi centrifugal casting.
 - 3. Discuss briefly about tube drawing process.
 - Illustrate LD process of steel manufacturing.
 - Summarize carbon are welding process.
 - Point out the method of specification of a lathe.
 - Outline the process of gear hobbing.

 $(5 \times 6 = 30)$

PART -C

(Maximum marks: 60)

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

Unit — I

Ш	(a)	Describe in detail about plaster moulding.	(200)	8
	(b)	Explan about cold chamber die easting process.	ž.	7
		Or		
ľ	(a)	Write down the significance of skelton pattern.		8
	(b)	Summarize any tour casting defects.		7
Œ	2000 201	Unit — II		
v	(a)	Write a short note on isothermal forging.		8
	(b)	Discuss briefly about hot extrusion.		7
	111750	On On		
vı	(a)	Discuss about production of connecting and by forging operation.		8
	(b)	Outline the powder metallurgy process.		7
ere supp	EIO#	Unit VIII		-fun-
VII	(a)	Write a short note on oxy-acetylene welding.	123	8
	(b)	Compare between soldering and brazing		7
		OR		
VIII	(a)	Explain gas tungsten are welding with a neat sketch.		8
	(b)	Write briefly about the five basic types of weld joints.	4	7
		Unit — IV	66	
1X	(a)	Discuss the working of quick return mechanism of a shaper.		8
	(b)	Write a short note about rapid prototyping.	-	. 7
		OR .		
x	(a)	Write the method of taper turning by tail stock set over method in a la	ithe.	. 8
.9	(b)	Describe the different types of grinding wheels.		7