

Total No. of Printed Pages:2

SUBJECT CODE NO:- E-306
FACULTY OF ENGINEERING AND TECHNOLOGY
S.E.(Mech) (CGPA) Examination Nov/Dec 2017
Production Processes
(REVISED)

[Time: Three Hours]

[Max.Marks:80]

Please check whether you have got the right question paper.

- N.B
- 1) Solve any two from questions 1, 2, 3, & 6, 7, 8.
 - 2) Solve any one from questions 4, 5, & 9, 10.

Section A

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| Q.1 | a) What are different types of patterns? Explain any four types. | 07 |
| | b) Discuss about preparation of Green Sand mould with suitable sketch. | 07 |
| Q.2 | a) How Hot Chamber Die Casting is prepared & where it is suitable over Cold Chamber Die Casting. | 07 |
| | b) Differentiate between Hot Working & Cold Working of Metals | 07 |
| Q.3 | a) Explain with applications about Extrusion & Drawing operations. | 07 |
| | b) How following sheet metal operations can be done? | 07 |
| | i) Blanking | |
| | ii) Punching | |
| | iii) Piercing | |
| | iv) Lancing | |
| Q.4 | a) Which properties moulding sand should possess? Explain briefly. | 06 |
| | b) Explain zones in cupola furnace with neat sketch. | 06 |
| Q.5 | a) Write a short note on Rotary Swaging | 06 |
| | b) What are shearing & bending operations? | 06 |

Section B

- Q.6 a) Explain different flames used in the Gas Welding. 07
b) What are resistance welding methods & their applications? 07
- Q.7 a) How Thermit Welding is used in joining? 07
b) Explain the method of manufacturing water bottles in detail. 07
- Q.8 a) With neat sketch describe Injection Moulding. 07
b) Elaborate mechanical & chemical cleaning methods for surface of metals. 07
- Q.9 a) Justify role of plasma arc welding & how it is performed? 06
b) Differentiate between A.C & D.C power sources used in Arc Welding. 06
- Q.10 Write short note on any three 12
- i) Electroplating
 - ii) Galvanizing
 - iii) Anodizing
 - iv) Metal spraying