

**B.TECH. SEM -IV MECHANICAL 2014 COURSE (CBCS) :
SUMMER - 2018**

SUBJECT : MANUFACTURING PROCESS

Day : **Tuesday**
Date : **05/06/2018**

Time : **10.00 AM TO 01.00 PM**
Max. Marks : 60

S-2018-2302

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagram **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

Q.1 List the types of furnaces used in foundry. Describe cupola furnace with neat sketch in detail. [10]

OR

Which are the different types of sand testing methods used in moulding? Explain any one in detail. [10]

Q.2 List the Hot working processes. Explain any two in detail with neat sketch. [10]

OR

List the cold working processes. Explain any two in detail with neat sketch. [10]

Q.3 a) Describe Gas Welding with neat sketch and state its merits, demerits. [07]

b) What are the different types of adhesives used in welding? [03]

OR

a) Describe ultrasonic welding in detail with neat sketch. [07]

b) What are the different types of welding joints? [03]

Q.4 Describe Lathe machine with neat sketch and state the use of various parts. [10]

OR

Which are different operations carried out on lathe machine? Explain any three with suitable sketches. [10]

Q.5 Describe working of Radial drilling machine with neat sketch. [10]

OR

a) With suitable sketches describe any three different operations which can be performed on milling machine. [06]

b) Compare drilling and reaming operations. [04]

Q.6 List various types of Grinding Machines. Explain any one with suitable sketch. [10]

OR

Explain various steps in Compression Moulding with suitable sketches. [10]

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