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MANIPAL INSTITUTE OF TECHNOLOGY
(Constituent Institute of MAHE –Deemed University)
Manipal – 576 104



THIRD SEMESTER B.E (MECH. & I.P. ENGG) DEGREE END SEMESTER(MAKE-UP)EXAMINATIONS
SUBJECT : PRODUCTION TECHNIQUES.(MEE-209/IPE-209)
(REVISED CREDIT SYSTEM)
16/01/07

Time: 3 Hours.

MAX.MARKS: 50

Instructions to Candidates:

- ❖ Answer **ANY FIVE** full questions.
- ❖ Draw **NEAT SKETCHS** wherever necessary

1. a) Explain the allowances generally provided on the pattern. [03]
b) With neat sketch explain metal inert gas arc welding process. [04]
c) Write a note on specification of Electrodes used in arc welding. [03]
2. a) Explain with sketch centrifugal casting process. [05]
b) Explain with sketch permeability test conducted on moulding sand. [05]
3. a) Discuss the various properties of moulding sand. [03]
b) Distinguish between hot and cold working of metals. [03]
c) With the help of neat sketch explain the working of spring hammer. [04]
4. a) Explain with sketch combination die. [05]
b) Explain the various rolling and extrusion defects. [05]
5. a) Distinguish between
i) Blanking and piercing
ii) Coining and embossing [05]
b) Explain the following
i) Forging operations
ii) Forging defects [05]
6. Write a note on following
i) Ultrasonic testing
ii) Magnetic particle testing
iii) Weldability
iv) Drawing process [10]

(MEE-209/IPE-209)

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