

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID :199219

Roll No.

**B.Tech.**

(SEM. II) THEORY EXAMINATION 2013-14

**MANUFACTURING PRACTICES**

Time : 3 Hours

Total Marks : 80

Note :- Attempt all questions.

**SECTION-A**

1. Attempt all parts : (2×8=16)
- (a) Explain difference between single cut file and double cut file with neat sketch.
  - (b) Explain any two carpentry joints with neat sketch.
  - (c) What is the use of flux in welding ? Explain.
  - (d) What is Weldability ? Explain the factors on which Weldability depends.
  - (e) Explain any four properties of moulding sand.
  - (f) What is the importance of allowances in sheet metal shop ?
  - (g) Classify cutting tools used in machine shop.
  - (h) Explain any Forging Process.

**SECTION-B**

2. Attempt any four parts : (4×6=24)
- (a) What is the principle of resistance welding ? Explain resistance projection welding with neat sketch. Also write it's merits and demerits.

- (b) What are defects in wood ? Explain in detail with neat sketch.
- (c) Explain how files are classified in fitting shop.
- (d) Explain following operations performed on Lathe machine :-
  - (i) Turning
  - (ii) Taper Turning
  - (iii) Knurlingwith position of tool and neat sketch.
- (e) What is Pattern ? Explain different allowances provided on Pattern. Also mention their types.
- (f) How Tapping and Filing operations are done in fitting shop ? Explain with neat sketch.

### SECTION-C

3. Attempt any five parts : (8×5=40)
- (a) What is working principle of Lathe machine ? Explain principle parts of Lathe with neat sketch.
  - (b) What is Sheet metal ? List its applications. Write different materials used in sheet metal shop.
  - (c) Explain different tools used in fitting shop with neat sketch.
  - (d) What are the requirements of pattern material ? Explain different pattern materials.
  - (e) Explain structure of exogenous trees with neat sketch.
  - (f) Explain different forging operations with neat sketch.

(g) Explain following sheet metal operations with neat sketch :-

(i) Squeezing

(ii) Drawing

(h) Discuss in detail "Metal inert gas welding". Also write its merits, demerits and applications.