

B.Tech 2nd Semester Exam., 2019

WORKSHOP MANUFACTURING PRACTICES

(New Course)

Time : 3 hours

Full Marks : 70

Instructions :

- (i) All questions carry equal marks.
- (ii) There are **NINE** questions in this paper.
- (iii) Attempt **FIVE** questions in all.
- (iv) Question No. 1 is compulsory.

1. Answer any seven questions :

- (a) Explain the functions of Runner and Riser in casting.
- ~~(b) Explain the different types of flames in gas welding.~~
- (c) Explain the function of gating design in casting.
- (d) Differentiate between wood and timber.
- (e) Explain forming with its applications.

(f) Differentiate between hot working and cold working.

- (g) Explain the types of joining operations.
- (h) Mention various advanced manufacturing methods.
- (i) Discuss the operations that can be performed on lathe machine.
- (j) Differentiate between machine and machine tool.

2. What do you understand by manufacturing process? Classify various manufacturing processes. <http://www.akubihar.com>
3. What do you understand by additive manufacturing? Explain with neat sketch any one additive manufacturing process.
4. Explain the tapping operation in fitting. Also explain in detail the various taps used for the same.
5. Explain any two tools used for the following operations in carpentry :
 - (a) Cutting
 - (b) Finishing
 - (c) Striking
6. Explain in detail the technique for plastic moulding.

7. Explain with neat sketches the various casting of defects.

8. Explain in detail with neat sketch the gas welding process.

9. Explain the various welding positions. Also clearly differentiate between soldering and brazing along with its applications.

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