

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.
