

**Code : 100105/100205**

**( 2 )**

**B.Tech 2nd Semester Special Exam., 2020**

**( New Course )**

**WORKSHOP MANUFACTURING PRACTICES**

**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) Differentiate between machine tool and machining center.
- (b) Explain recrystallization temperature.
- (c) Explain various forming operations.
- (d) List the various casting defects.
- (e) Write the applications of various types of flames in gas welding.
- (f) Discuss the role of polarity in arc welding.
- (g) Discuss the types of plastics.

name power tools in short.

- (i) Differentiate between 3-jaw and 4-jaw chuck on lathe machine.
- (j) Differentiate between live centre and dead centre on lathe machine.

- 2. What do you understand by manufacturing process? List the various manufacturing processes along with the suitable material used.
- 3. What do you understand by CNC machine? Explain with neat sketch the working of any CNC machine.
- 4. Justify why cast iron is not preferred as suitable material for fitting operations. Explain with neat sketches the various cutting and finishing tools used in fitting shop. <https://www.akubihar.com>
- 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 glass cutting.
- 7. Explain with neat sketch the various elements of casting. Also, explain the properties of moulding sand.

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8. Explain in detail with neat sketch the arc-welding process.
9. Explain the types of welding joints. Also, clearly differentiate between soldering and brazing along with its applications.

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