(2)

B.Tech 2nd Semester Exam., 2021

(New Course)

WORKSHOP MANUFACTURING PRACTICES

Time: 3 hours

Full Marks: 70

Code: 100205

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 wood and timber.
 - (b) Differentiate between hot working and cold working.
 - (c) Explain the types of flames in gas welding.
 - (d) Explain forming process.
 - (e) Differentiate between machining center and machine tool.
 - Explain the role of polarity in electric arc welding.

- (g) List the properties of materials.
- (h) Explain alloys.
- Differentiate between 3-jaw and 4-jaw chuck.
- Write on the classification of steel.
- Classify various manufacturing processes along with the suitable materials that can be used in each process. https://www.akubihar.com
- List the various additive manufacturing processes and explain 3D printing in detail.
- Explain the various operations that can be performed in fitting shop.
- 5 Explain the different types of saw used in carpentry shop along with neat sketches.
- Explain the various techniques used for glass moulding.
- 7. Classify and explain the various casting defects along with neat sketches.

- 8. Explain the types of welding joints. Also differentiate clearly between soldering and brazing along with its applications.
- 9 With the help of a neat sketch, explain the gas welding process.

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