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3013

B. Tech. 1st Semester (Common for All Branches) Examination – December, 2018

WORKSHOP TECHNOLOGY

Paper: ESC-ME-102-G

Time: Three Hours]

[Maximum Marks : 75

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt any five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain the following :

- $2.5\times 6\,$
- (a) What do you mean by manufacturing process?
- (b) Advantages of plant lay-out.
- (c) Name any *four* fitting tools.
- (d) Principle of arc welding.

- (e) Principle of resistance weldings.
- (f) GMAW.

UNIT - I

- 2. Explain the concept of plant layout and It's Importance also enlist types of plant lay-out.15
- **3.** Explain the concept of accident and common sources of accident. How can overcome from this?

UNIT – II

- **4.** Describe the principle of hot working process and cold working process with the help of suitable diagram. 15
- **5.** Explain the classification of metals also explain the various fitting operations.

UNIT - III

- 6. Enlist the various casting process. Also explain the various sand casting properties.
- 7. Explain the principle of lathe machine, also tell various parts of lathe machine with the help of neat sketch.

(2)

UNIT - IV

- **8.** Describe the principle of Arc Welding also explain TIG welding and It's application with the help of neat sketch and example.
- **9.** Explain the working principle of resistance welding. Also explain the different types of welding defects. 15