

Roll No.

24784

**B. Tech. 7th Semester (AUE)
Examination – December, 2016**

INDUSTRIAL ENGINEERING

Paper : ME-420-F

Time : Three Hours]

[Maximum Marks : 100

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 five questions in all, selecting at least one question from each Section. Question No. 1 is compulsory. All questions carry equal marks.

1. Explain in brief the following : 5 × 4 = 20
- (a) Service life
 - (b) Material handling
 - (c) Work study
 - (d) Scheduling

SECTION – A

2. Discuss how the product design is done ? Explain with the help of suitable example. 20
3. What do you mean by value engineering ? Explain the benefits of the same. 20

SECTION – B

4. What is material handling ? Discuss how the material handling equipment is selected ? 20
5. Discuss how the layout of a plant is decided and discuss the various points which are considered for the finalization of layout ? 20

SECTION – C

6. Discuss the various types of Job, batch and flow production methods with the help of suitable example. 20
7. Explain the use of various control charts. 20

SECTION – D

8. What is forecasting ? What are the benefits of forecasting ? Explain with suitable example. 20
9. Explain the concept of inventory control. How the various selective techniques like ABC etc. are used for the control of inventory ? 20

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