Printed pages: 02   **Sub Code:MTPE202**

Paper Id: | 244202 | **Roll No:**

M. TECH.

(SEM -II) THEORY EXAMINATION 2017-18

ADVANCED INDUSTRIAL ENGINEERING

Time: 3 Hours   *Total Marks: 70*

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION-A

1. Attempt all the parts. Write answer of each part in short.   **(7x2 =14)**

   a) What do you mean by productivity?

   b) Enlist the reasons for low productivity.

   c) Define work study.

   d) Define method and motion study.

   e) What is IFC?

   f) Define value engineering.

   g) Define system maintenance.

SECTION-B

2. Attempt any Three questions from this section: **(3x7 =21)**

   a) Define productivity. What are the different techniques to improve the productivity?

   b) Differentiate between Work measurement and method study.

   c) Write short notes on:
     i. Value Engineering
     ii. Phaseses of value engineering

   d) Discuss the objectives and design of facility layout.

   e) Discuss the prerequisites of an effective MIS.

SECTION-C

3. Attempt any One of the following :   **(1x7 =7)**

   a) When can you use a quick way to assess productivity? What are the positive and negative sides?

   b) Write short notes on :
     i. Gold's approach
     ii. Quick productivity appraisal approach

4. Attempt any One of the following :   **(1x7 =7)**

    a) Differentiate between work sampling and time study.
    b) Describe the classification of material handling equipments and explain each of them.

5. Attempt any One of the following :   **(1x7 =7)**

    a) Explain briefly design layout technique.
    b) How system enginrring is different from traditional engineering disicpline.

6. Attempt any One of the following :   **(1x7 =7)**

    a) Explain system engineering principals.
    b) What is MIS? Explain its objectives and characteristics.

7. Attempt any One of the following :   **(1x7 =7)**

    a) Discuss an organizational need for MIS in a company?
    b) What do you understand by System Life Cycle? State its different phases.

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