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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 engineering is different from traditional engineering discipline.

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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