

IE-341
Section 1, CRN: 30512/513/514
Section 3, CRN: 38299/300/301
First Semester 1436-37 H (Fall-2015) – 3(2,1,2)
“HUMAN FACTORS ENGINEERING

Sunday, Sep 06, 2015 (22/11/1436H)

Quiz 1 **ANSWERS**

Name:	Student Number: 4	Section: Sun / Mon
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State (in the box provided) if each of the following statements is True (T) or False (F). [1 Point Each]

1. Anthropometry involves “being” while ergonomics involves “doing”.

T

slide 1.2

2. One of the objectives of human factors is to increase productivity.

T

slide 1.3

3. It is mostly acceptable in human factors to use ourselves as models for design.

F

slide 1.5

4. The early emphasis of human factors was in the forensics field.

F

The early emphasis of human factors included design workstations for the disabled (slide 1.6)

5. Most of the Human Factors Society members are working in psychology.

T

slide 1.7

6. A man holding a broomstick is an example of an automated system.

F

This is an example of a manual system (slide 1.9)

7. Systems operate inside an immediate, intermediate, and general environment.

T

slides 1.10

8. Open-loop systems require continuous control and feedback.

F

Closed-loop systems require continuous control and feedback. (slide 1.13)

9. MTF is a measure of system reliability that is used in continuous activity.

T

slide 1.14

10. When components in a system are connected in series, the reliability of the system is usually higher than that of any single component.

F

When components in a system are connected in series, the reliability of the system is usually much lower than that of any single component. (slide 1.15)

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State (in the box provided) if each of the following statements is True (T) or False (F). [1 Point Each]

1. Physiology studies the influence of mental conditions.

F

Psychology studies the influence of mental conditions (slide 1.2)

2. One of the objectives of human factors is to increase human quality of life.

T

slide 1.3

3. Human factors involves the careful testing of human scientific data.

T

slide 1.5

4. Frank and Lilian Gilbreth are the starters of the human factors in PC revolution.

F

The Gilbreths worked in the early 1900's; the PC revolution was in the 1980's and 1990's (slide 1.6)

5. People perform human factors work mostly in private businesses.

T

slide 1.7

6. A man holding a broomstick is an example of a mechanical system.

F

This is an example of a manual system (slide 1.9)

7. A hierarchical system is one that consists of system sublevels.

T

slides 1.10

8. In closed-loop systems feedback is required only to improve system performance. F

In open-loop systems, feedback is required only to improve system performance. (slide 1.13)

9. Success ratio calculates the number of times that a system works correctly divided by the total number of operations. T

slide 1.14

10. When components in a system are connected in parallel, failure of one component means failure of the entire system. F

When components in a system are connected in series, failure of one component means failure of the entire system. (slide 1.15)