

Roll No

AU/ME-7004 (3) (CBGS)

B.E. VII Semester

Examination, November 2019

Choice Based Grading System (CBGS)

Ergonomics

Time : Three Hours

Maximum Marks : 70

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1.
 - a) What do you mean by Productivity? What are the factors affecting productivity in Manufacturing and Services? Explain with suitable examples.
 - b) Student tuition at Boering University is \$ 100 per semester credit hours. The states supplement school revenue by matching student tuition, dollars per dollars. Average class size for typical three credit course is 50 students. Labour costs are \$ 4000 per class, material costs are \$ 20 per student, and overhead cost are \$ 25,000 per class. Find:
 - i) What is the multifactor productivity ratio?
 - ii) If instructors work an average, what is the labour productivity ratio? (Keep in mind that professor delivering the lecture work 14 hours per week the semester last for 16 weeks).
2.
 - a) What do you mean by work sampling study. Explain production planning based on work study?
 - b) Compare Multiple activity chart and String chart.

3. a) Discuss different types of Man-Machine systems. Explain with suitable example?
b) Define Anthropometry. Explain with suitable example.
4. a) Define Visual Display. Explain types of visual display.
b) Discuss the general principles of auditory and textual display?
5. a) Describe briefly environmental stresses. Write their impacts on human work with suitable example.
b) Discuss the personal protective equipment. Explain the basic requirements of personal protective equipment.
6. a) Why is work study valuable. What are the basic procedures of work study. Explain with suitable examples?
b) Explain information theory. What are the factors affecting information reception and processing?
7. a) Differentiate between Pictorial and Graphical display.
b) Differentiate between Quantitative and Qualitative types of visual display.
8. Write short notes on: (any two)
 - a) Symbolic codes
 - b) Material Handling
 - c) Kinesthetic and orientation senses
