

B.Sc. 6th Semester (Honours) Examination, October 2020

Subject: PHYSIOLOGY

Course ID: 62516

Course Code: SH/PHY/603/DSE-3 (T)

Course Title: Ergonomics and Occupational Physiology

Full Marks: 15

Time: 45 Minutes

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer all the questions.

UNIT I

1. Answer any three of the following questions: (1×3=3)
- (a) What is “anthropometry”?
 - (b) What is silicosis?
 - (c) Name any two benefits of studying Ergonomics.
 - (d) Mention the reason of white figure disease.
 - (e) Define LUX.
 - (f) Name any two indices of heat stress.
 - (g) What is NIHL?
 - (h) What is pneumoconiosis?

UNIT II

2. Answer any two of the following questions: (3×2=6)
- (a) What is work-rest cycle? Mention its importance. 1+2=3
 - (b) Briefly mention the adverse effects of illumination on performance. 3

- (c) What is work related musculoskeletal disorders? Explain the control measurements of accident prevention. 1+2=3
- (d) What is industrial safety? State the importance of ergonomics in occupational health and well-being. 1+2=3
- (e) What is meant by control display compatibility? Give examples. 2+1=3
- (f) Explain how ergonomic knowledge can improve productivity. 3

UNIT III

3. Answer *any one* of the following questions: (6×1=6)
- (a) What do you mean by Man-Machine-Environment system? Mention the dust related occupational diseases with their preventive measures. 2+2+2=6
- (b) Describe the effects of noise on industrial workers. How such stress can be controlled? 4+2=6