BACHELOR OF PHYSIOTHERAPY EIGHT SEMESTER ERGONOMICS

BPT – 804 [SPECIAL REPEAT] [USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1.30 hrs.

Full Marks: 35

[PART-A: Objective]

Time: 15 min.

Marks: 10

Choose the correct answer from the following:

1×10=10

- 1. Physiological factors in Ergonomics are
 - a. Body tolerance, muscle strength and endurance, vision, hearing, coordination.
 - Body tolerance, muscle strength and endurance, fatigue, vision, hearing, coordination.
- Tolerance to heat and cold, fatigue, muscle strength and endurance, vision, hearing.
- d. None of the above
- 2. The principles of Ergonomics are intended
 - a. To improve the fit between worker and an activity.
 - c. To improve the fit of the worker.
- b. To improve the fit among the workers.
- d. None of the above
- 3. According to OSHA, Ergonomics is defined as
 - a. The people's efficiency in their work place.
 - c. The study of work

- b. The interaction between worker and their environment.
- d. The study to reduce workload.
- 4. When designing the workstation and tools, it should be such that it fits
 - a. The job to the worker
- b. The worker to the job
- c. The job for the worker
- d. None of the above
- 5. The organization that mainly focuses on the changes required in a workplace in order to prevent disorder is (are)
 - a. IEA

b. OHSAS

c. NIOSH

- d. All of the above
- 6. The scale used for assessing the posture is
 - a. RAMP

b. REBA

c. JSI

- d. KIM
- 7. The main responsibility of ergonomic engineer is
 - Follow-up with the employee, occupational health nurse, physiotherapist and ergonomist
- Ensure all employees are aware of the risk factors
- Coordinate communication of changes in treatment to employee
- d. Document and communicate needed workplace fixes

- 8. Anthropometry deals with the study of
 - a. Body size, shape and energy expenditure
 - c. Body size, shape, strength and capacity
- 9. The lower leg length is measured from
 - a. The foot-rest surface to the lower surface of the thigh (anterior)
 - c. The foot-rest surface to the upper surface of the thigh (anterior)
- 10. The goal of NIOSH is (are)
 - a. Reduce occupational hearing loss
 - c. Improve workplace safety

- b. Body size, shape and structures of the body
- d. None of the above
- b. The foot-rest surface to the lower surface of the thigh (posterior)
- d. The foot-rest surface to the upper surface of the thigh (posterior)
- b. Reduce traumatic injuries
- d. All of the above

(PART-B : Descriptive)

Time: 1 hr. 15 min.			Marks: 25
		[Answer question no.1 & any two (2) from the rest]	
1.		ne work related musculoskeletal disorder. What are the various sures for the prevention of occupational diseases?	5
2.	a) b)	What are the effects of poor lighting and noise pollution to an individual in their work place? Write a short note on the causes of low backache in the work place	5+5=10
3.	a) b)	Define ergonomics. Write the ergonomic advice to desktop operators What prevention can be given in the case of person with vibration white finger (VWF)?	5+5=10
4.	a) b)	State the important components of an ergonomic chair What is the importance of an adjustable chair and table?	5+5=10

[3]