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Universiti Tun Hussein Onn Malaysia

**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2018/2019**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH  
COURSE CODE : BPA 32202  
PROGRAMME CODE : BPA / BPD  
EXAMINATION DATE : DECEMBER 2018 / JANUARY 2019  
DURATION : 2 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF **THREE (3)** PAGES

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**Q1** Stress represents reaction of the human body to threatening social, occupational, environmental and psychological factors. In the context of workplace, there are physical stress and psychological stress. Physical stress involves the physical demand imposed on the body while psychological stress involves emotional states resulting from the perceived difference between level of occupational demand and person's ability to cope with the demand.

- (a) List **FOUR (4)** factors associated with physical stress. (4 marks)
- (b) Discuss **FOUR (4)** important factors affecting successful ergonomic programs in an organization. (8 marks)
- (c) Explain **THREE (3)** sources of psychological stress at workplaces with examples. (6 marks)

**Q2** A hazard is a potential source of harm or adverse health effect on a person or persons. There are many types of hazard which include mechanical hazards, impact and acceleration hazards and many others.

- (a) Mechanical hazards are associated with power-driven machines whether automated or manually operated.  
Explain **THREE (3)** main mechanical hazards associated with robots. (9 marks)
- (b) Elaborate impact and acceleration hazards and their protections for head, eye and face and foot with examples. (16 marks)

**Q3** The Ragaman Co. is a manufacturing company. Last two weeks, the company was visited by Department of Safety and Health (DOSH). DOSH found that the employees' noise exposure of that company exceeded an eight hour average of 90 dB(A). DOSH directed the company to conduct a noise monitoring program as soon as possible. You as the newly appointed Safety and Health Manager of the company have to initiate the program and prepare a report. In your report you are required to:

- (a) Formulate **FOUR (4)** strategies in identifying and assessing hazardous noise at the workplace. (20 marks)
- (b) Propose **THREE (3)** control actions to reduce noise at noise source, noise path and noise receiver. (12 marks)

**Q4** The aim of the risk assessment process is to evaluate hazards, then remove that hazard or minimize the level of its risk by adding control measures, as necessary. By doing so, you have created a safer and healthier workplace.

(a) Determine general plan for a risk assessment.

(5 marks)

(b) Develop risk management process based on the basic component of risk management to ensure the safety, health and welfare of the employees in the premises by using an appropriate example.

(20 marks)

**-END OF QUESTIONS-**

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