

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I SESSION 2022/2023

:

COURSE NAME

OCCUPATIONAL SAFETY AND

HEALTH

COURSE CODE

BEE 12202

PROGRAMME CODE

BEJ / BEV

EXAMINATION DATE :

FEBRUARY 2023

DURATION

2 HOURS

INSTRUCTION

1. ANSWER ALL QUESTIONS.

2. THIS FINAL EXAMINATION IS CONDUCTED VIA **CLOSED BOOK.**

3. STUDENTS ARE **PROHIBITED** TO CONSULT THEIR OWN MATERIAL OR ANY EXTERNAL RESOURCES DURING THE EXAMINATION CONDUCTED VIA CLOSED BOOK

THIS QUESTIONS PAPER CONSISTS OF SEVEN (7) PAGES

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PART A: Objective (25 questions) - 50 marks

- Q1 Environmental audit means a periodic, systematic, documented and objective evaluation process. Select from the list that is **NOT** the main function of Environmental audit.
 - (a) The compliance status to environmental regulatory requirements
 - (b) The establishment of Environmental Fund Committee
 - (c) The environmental management system
 - (d) The overall environmental risk of the premises
- Q2 Explain the function of Factories and Machinery Act 1967.
 - (a) To provide for the control of factories with respect to matters regarding the safety, health and welfare of person
 - (b) To promote the working efficiency at work
 - (c) To schedule the maintenance of the machine
 - (d) To provide a regulation to protect the machines and the workers
- Q3 Choose the factors that contribute to the psychosocial hazards.
 - I. Maladjustment with work environment
 - II. Lack of job satisfaction
 - III. Work in long durations
 - IV. Poor human relationship
 - (a) I, II and III only.

- (c) I, II and IV only.
- (b) I, III and IV only.
- (d) I, II, III and IV.
- Q4 State the main cause of an accident.
 - (a) Unsafe condition.
- (c) Unsafe technique.

(b) Unsafe act.

- (d) Unsafe task.
- Q5 Determine an equipment that is **NOT** used to test indoor air quality.
 - (a) Thermometer

(c) Gas detector

(b) Anemometer

(d) Strain gauge

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Q6	Choose the hazards that are exposed at a workplace.								
	I. II. IV.	Noise Heat Water pressure Radiation							
	(a) I and I	I only	(c)	III and IV only					
	(b) I, II an	ad IV only	(d)	I, II, II and IV					
Q 7	The terms incidents and injuries are often used interchangeably. Compare the actual meaning between them.								
	(a) Synonymous								
	(b) Different								
	(c) Diametrically opposed								
	(d) Identical								
Q8	Determine the references that can be used in managing chemical hazards in a workplace.								
	 I. Chemical Hazard Risk Assessment. II. Safety data sheets. III. Chemical register. IV. Schedule waste management. 								
	(a) I, II ar	nd III only.	(c)	I, II and IV only.					
	(b) I, III and IV only.			I, II, III and IV.					
Q9	Select an action that should be done immediately in the event of an accident or an other situations which calls for immediate attentions.								
	(a) Invest	tigation.							
	(b) Meeti	ng.							
	(c) Repor	t .							
	(d) Inspec	ction.							
Q10	It is illeg treatment	gal for a manufacturing co into the environment. Selec	ompan et a leg	y to discharge mercury waste without islation that is related to this statement.					
	(a) OSHA	A 1994	(c)	EQA 1974					
	(b) FMA	1967	(d)	ISO 14000					

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Q11	While the management give their best effort to correct unsafe condition/practices, show the key observation required by employees to safe guard themselves.									
	(a) Haz	ards	(c)	Safety						
	(b) Hea	lth	(d)	Risk						
Q12	Recogniz	ze the causes of an accident.								
	I. II. III. IV.	Basic causes. Immediate causes. Direct causes. Personal causes.								
	(a) I, II	and III only	(c)	I, II and IV only						
	(b) I, III	and IV only	(d)	I, II, III and IV						
012	D.C. 1.4. 1.1.									
Q13	Define a substance to be known as a pollutant.									
	(a) The substance may cause sickness to human									
	(b) The substance may cause sickness to animals									
	(c) The substance may remain in the environment for a period of time									
	(d) The substance cannot be degraded by human									
Q14	Constru	ect the information stated in	The	Job and Safety Analysis (JSA) table						
	 I. Fact problems II. Related job description III. Learning issues IV. List of things that can go wrong 									
	(a) I, an	d II only.	(c)	I, and III only.						
	(b) II an	d IV only.	(d)	I, II, III and IV.						
Q15	On the job injuries and illness, cost money, time, and effort. Select the mos practical way to manage these losses.									
	(a) Make sure safety is part of labor contracts									
	(b) Agg	ressive claims handling								
	(c) Effec	ctive safety and loss control p	rogran	ns						
	(d) Good insurance coverage									

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Q16	Choose the significance of investigating an accident.							
	 I. To estimate compensation to the victim. II. Legal requirements as stated in Section 21 OSHA 1994. III. To avoid repetition of a similar accident IV. Organization's policy and business reasons. 							
	(a) I and	III only	(c)	III and IV only				
	(b) I, II as	nd IV only	(d)	I, II, II and IV				
Q17	Interpret the severity level if under the Semi-Quantitative risk assessment method, a person whom was on medical leave for more than FOUR(4) consecutive days.							
	(a) Level	1	(c)	Level 2				
	(b) Level	3	(d)	Level 4				
Q18	Select from the following that are included in the 'Hazard Identification' process:							
	I. II. III. IV.	Workplace inspection Hazard elimination Investigate accident record Hazard isolation	ls					
	(a) I, and II only.			I, and III only.				
	(b) I, II and IV only.			I, II, III and IV.				
Q19	Identify the root of the OSH management system.							
	10000	fy, analyze, act and evaluate.						
		ver, establish, perform, and o						
	(c) Elimination, substitution, isolation, and PPE.							
	(d) Plan,	do, check, and act.						
Q20	Give the s	afe range of electric current	to be t	touched with bare hands.				
	(a) 1mA	– 5mA	(c)	16mA - 30mA				
	(b) $6mA - 15mA$ (d) $31mA$ and above							

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Q21	Discover	the	responsibilities	of	Safety	and	Health	Officer	(SHO)	for	incident
	investigation process.										

- I. Organise camera, tape and report form.
- II. Investigate if incident is serious and require to notify authorities such as DOSH, DOE, Police, etc.
- III. Complete incident record form.
- (a) I and II only.

(c) I and III only.

(b) II and III only.

- (d) I, II, and III.
- Q22 State the size range of organic dust.
 - (a) 0.1 to 150 microns.
- (c) 0.01 to 150 microns.
- (b) 0.1 to 200 microns.
- (d) 0.01 to 200 microns.
- Q23 There are several factors that are often used to determine when an organization should have the services of a full time Safety Professional. Show from the following that is generally acknowledged to be the prime-determining factor in assigning safety personnel.
 - (a) The incident rate of organization
 - (b) The seriousness of incidents suffered by the organization
 - (c) The potential for serious injuries in the organization
 - (d) The type of industry the organization is involved in
- Q24 From the following, what is NOT the method used in the Hazard analysis.
 - (a) Job Safety Analysis (JSA)
 - (b) Hazards and Operability Studies (HAZOP)
 - (c) Fault Tree Analysis
 - (d) Economic analysis
- Q25 Choose the appropriate cases of serious accidents category.
 - I. Box of materials dropped.
 - II. Falling off a ladder.
 - III. Hazardous chemical spill.
 - IV. Hearing loss.
 - (a) I and II only.

- (c) II and III only.
- (b) II, III and IV only.
- (d) I, II, III and IV.



Part B - Subjective (2 Questions) - 50 Marks

Q1 (a) Define the following terms:

(i) Hazard

(2 marks)

(ii) Risk

(4 marks)

(b) Risk assessment is one of the requirement of OSHA 1994. Explain why a review of risk assessment needs to done in a workplace.

(7 marks)

(c) You are required to perform a risk control in your workplace. Show how you are going to implement this task.

(12 marks)

Q2 (a) Define health hazards and give an example.

(3 marks)

(b) List the **FIVE** (5) types of health hazards.

(5 marks)

- (c) Explain the following ergonomic risk factors:
 - (i) Awkward posture

(2 marks)

(ii) Forceful and sustained exertions

(2 marks)

(d) As a supervisor in the production department, discover the symptoms of ergonomic hazards that exist in your workplace.

(9 marks)

(e) Give FOUR (4) control and monitoring approach of ergonomic hazards.

(4 marks)

- END OF QUESTIONS -