

# UNIVERSITI TUN HUSSEIN ONN MALAYSIA

# FINAL EXAMINATION SEMESTER I **SESSION 2019/2020**

COURSE NAME

OCCUPATIONAL SAFETY AND

**HEALTH** 

COURSE CODE

: BNP 20402

PROGRAMME CODE

: BNA, BNB, BNC

EXAMINATION DATE : DECEMBER 2019/JANUARY 2020

**DURATION** 

: 2 HOURS

INSTRUCTION

: ANSWER ALL QUESTIONS



THIS QUESTION PAPER CONSISTS OF NINE (9) PAGES

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### **OBJECTIVE QUESTIONS (20 MARKS)**

1		1 1	•
1	$\Delta$	hazard	10
1 .	4 1	nazara	10

- A. The likelihood of a substance person, C. The potential of a substance person, activity or process to cause harm person, activity or process to cause harm.
- B. The probability of a substance person, activity or process to cause harm.

  The prospect of a substance person, activity or process to cause harm.

2. Who are the customers of the occupational safety function?

- A. All employees in an organization C. The safety manager, supervisor, peers, and subordinates
- B. All employees in an organization and D. From the CEO-level of the community as a whole management to the line worker

3. Some ways the safety management professional can determine training needs is to:

A. All of the following

- C. Review regularly scheduled inspections for needs
- B. Conduct workplace surveys
- D. Conduct an employee opinion survey

4. The terms incidents and injuries are often used interchangeably. Actually the meanings are:

A. Synonymous

C. Diametrically opposed

B. Different

D. Identical

5. Section 16, OSHA 1994 requires the employers to

A. report accidents

C. have a written policy

B. provide PPE

D. be competent

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- 6. The requirement for the establishment of a safety and health committee is mentioned in...
  - A. Section 32, FMA 1967

- C. Section 30, OSHA 1994
- B. Section 29, OSHA 1994
- D. Section 29, FMA 1967
- 7. The duties of employer are stated in ...
  - A. Section 15, FMA 1967
- C. Section 16, FMA 1967
- B. Section 15, OSHA 1994
- D. Section 16, OSHA 1994
- 8. FMA (Person In Charge) Regulation 1970 specify that certain machinery requires certificate of competencies **EXCEPT** 
  - A. steam boiler

C. internal combustion engine

B. dredge

D. electric motor

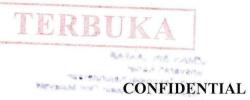
- 9. A risk is...
  - A. The ability of a substance person, activity or process to cause harm
  - B. The likelihood of a substance person, activity or process to cause harm.
  - C. The potential of a substance person, activity or process to cause harm
  - D. The prospect of a substance person, activity or process to cause harm.
- 10. A duty that 'the employer ensures, as far as is practicable, that any control measure is maintained in an efficient state' means......
  - A. If it is convenient, the duty may be done
  - B. Unless the risk is high, the duty may not be done.
  - C. If the frequency of the activity is small, the duty need not be done
  - D. If the duty is technically possible, it must be done irrespective of any difficulty, inconvenience or cost



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11.	. Occupational Safety and Health is a function								
	A.	administrative	C.	quality control					
	В.	management	D.	Financial					
12	The	he main cause of an accident is known as							
	A.	Risk factor	C.	Primary cause					
	В.	Contributory factors	D.	Primary risk					
13	Cont	ntrol by engineering design would NOT include							
	A.	Installing light beam safety divide							
	В.	Supervision							
	C.	Interlocking							
	D.	Limitation							
14	Duri	ing accident investigation, the following should be done, except							
	A.	Gathering information							
	В.	Formulating theories on why and how the accident might have occurred							
	C.	Witness should be interviewed in a relaxed atmosphere							
	D.	. Carry out investigation immediately							
15	Whic	which of the following is NOT a component of Emergency Preparedness?							
	A.	Conducting drills							
	В.	Accident investigation							
	C.	Public education program							
	D.	Reviewing hazard							



- 16 A Permit To Work
  - A. Allows illegal workers to work in Malaysia
  - B. Is a permanent record of precautions taken for maintenance
  - C. Is a statement that maintenance work has been done
  - D. Is a safe system of work
- Which of the following is NOT a human factor for the cause of accident?
  - A. Lack of training

C. Shift work

B. Poor maintenance

D. Physical condition of worker

- 18 An accident investigation would
  - I Determine causes of accident
  - II Provide means to uncover new hazards
  - III Identify weakness in operating procedure
  - IV Record fact for future reference
  - A. I, II and III only

C. I, II and IV only

B. II, III and IV only

D. I. II. III and IV

- Which of the following cannot be used in hazard identification?
  - A. Job Safety Analysis

C. Fault Tree Analysis

B. Consultation

D. Performance Measuring

- Which of the following need NOT be considered during developing a safe system of work?
  - A. Assessment of the task

C. Identification of safe methods

B. Monitoring the system

D. Emergencies



Q1	Name and explain THREE (3) health hazards on a chemical label in the laboratory.
	(6 marks)
	***************************************
	***************************************
Q2	Identify <b>THREE (3)</b> factors that contribute to minor/major injuries in the laboratory.  (6 marks)
	***************************************
Q3	There were numerous major industrial accidents that have contributed significantly to the evolution of occupational, safety and health. Lessons learnt from those incidents have initiated more stringent precautions and preventive measures. Determine the implication and contributing factors of each tragedy as listed in <b>Table Q3</b> .
	(8 marks)



**Table Q3: Major Industrial Accidents** 

No	Tragedy	Implications	Contributing Factors
1	Bhopal Tragedy		
2	Bright Sparkles		
3	Highland Towers		
4	Chernobyl Disasters		

**Q4** Figure Q4 shows the scenario taken at a construction site of company MNO Sdn. Bhd. Perform HIRARC analysis and identify FOUR (4) hazards. Complete the HIRARC form in Table Q4.

(10 marks)

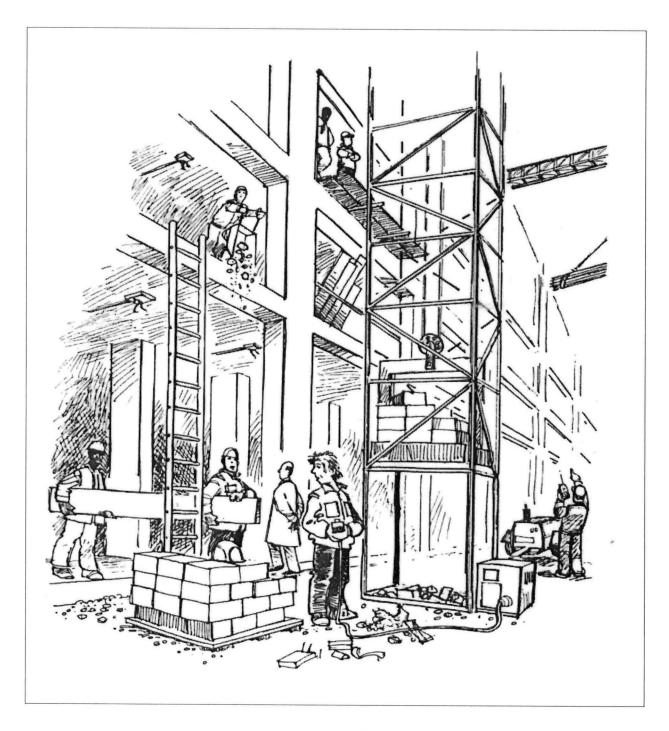


Figure Q4

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Table 4: HIRARC

					1 401	C4.IIINAINC					
					HIR	ARC FORM					
Compa	any:					Conducted by:					
Process / Location:					(Name, designation	on)					
Appro	Approved by:(Name, designation)		)	Date:(from to)							
Date:						Review Date:					
					-	Next Review Dat	Θ.		-		
1	Uasand	Idoutifica		2 D:-I			C.	2 0:10			PERMIT NO.
		Identifica		2. Risk Analysis			3. Risk Control				
No.	Work activity	Hazard	Which can cause / effect	Existing Risk Control (if any)	Likelihood	1 Severity	Risk	Recommended Control Measures	PIC	Due Date	Status
1											
2											
3	and the second second										
3											
4	RBUK										
5											

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