

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II **SESSION 2013/2014**

COURSE NAME

OCCUPATIONAL SAFETY AND

: HEALTH

COURSE CODE

: DAY 10102

PROGRAMME

: 1 DAJ

EXAMINATION DATE : JUNE 2014

DURATION

: 1 HOUR 30 MINUTES

INSTRUCTION

: (A) ANSWER ALL THE

OUESTIONS ON PROVIDED

ANSWER FORM

(B) DO NOT BRING OUT THE **EXAMINATION QUESTION** PAPER FROM THIS

EXAMINATION HALL

THIS QUESTION PAPER CONSISTS OF ELEVEN (11) PAGES

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Which of these best describes "the likelihood of an incident occurs"?

1.

B.

	A. B.	Risk Hazard	C. D.	An event An episode
2.	The	relative exposure to hazard is known as:	:	
	A. B.	risk danger	C. D.	hazard accident
3.	Sou	rce or a situation with a potential for har	m is kı	nown as:
	A. B.	risk danger	C. D.	hazard accident
4.	Wha	at is risk in occupational and safety healt	h?	
	A. B. C.	Risk is the likelihood of a specified hazar Risk is the severity of a specified hazar Risk is the combination of the likelih event occurring. Risk is the specified hazardous event of human injury.	rdous e nood a	event occurring. nd severity of a specified hazardous
5.	Wh	y need to carry out risk assessment in the	work	place?
	A. B. C. D.	Assessing the risk and putting in place con Cost-effective management of occupat Control measures and reviewing the ou Implementing measures to reduce the r	ional s itcome	afety and health (OSH).
6.	Who	en to carry out risk assessment?		
	A. B.	Before and after operation Before, during and after operation	C. D.	During and after operation After operation
7.	Wha	at is an external change in review risk as	sessme	ent?
	A.	Risk analysis that uses likelihood and s	severity	y in qualitative method.

risk throughout a plant and area in a workplace.

Presenting result is a very effective way of communicating the distribution of the

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8.	Who	XX/1	Carry	out	the	rick	assessment?
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- A. Any person or persons in the workplace.
- B. Person or persons trained to identify hazard and risk assessment.
- C. Officer from Department of Safety and Health.
- D. Person from top management.
- 9. Give the right sequential order of the basic components of risk management.
 - A. Hazard Identification Risk Assessment Review Control Measure Risk Control
 - B. Risk Control Hazard Identification Risk Assessment Review Control Measure
 - C. Review Control Measure Hazard Identification Risk Assessment Risk Control
 - D. Hazard Identification Risk Assessment Risk Control Review Control Measure
- 10. Job Safety Analysis (JSA) is a tool used to improve job safety through:
 - A. Avoid potential hazards associated with each step of a job
 - B. Control the hazards or potential hazards in the workplace
 - C. Finding effective control measures to prevent or eliminate exposure
 - D. Breaking the job down into a sequence of task
- 11. Risk assessment techniques use in the workplace EXCEPT:
 - A. Identify hazard

- C. Risk control action plan
- B. Integrate risk management
- D. Review adequacy of risk control
- 12. The purpose of Hazard Identification, Risk Assessment and Risk Control (HIRARC):
 - A. To investigate the accident cause in the workplace
 - B. To discuss a particular case and the possible severity that could come from the risks
 - C. To identify all the factors that may cause harm to employees and others (the hazards)
 - D. To enable employee to plan, introduce and monitor preventive measures to ensure that the risks are adequately controlled at all times
- 13. The physical classification of hazard is:
 - A. Biological

C. Electrical

B. Chemical

D. Psychosocial

- 14. Which is not related to HIRARC?
 - A. Risk assessment

C. Risk control

B. Hazard identification

D. Risk centre

15.	The hazard analysis of Failure Mode and Effect Analysis (FMEA):				
	 A. To select the problems that could arise from production systems B. Identifying potential hazards associated with sequence of tasks C. Is a procedure by which each potential failure and the kinds of failures that could happen 				
	D.	Breaking the job down into a sequence	of tas	k	
16.	Dete	Determine the likelihood categories.			
	A. B.	Highly unlikely Fatalities	C. D.	Major injuries First aid injuries	
17.	The	conclusion of hazard identification shou	ld con	tain:	
	A. B.	accident probabilities summary of control measures	C. D.	summary of possible severity list of hazard sources	
18.	The	most effective control measure in hazard	d conti	rol is:	
	A. B.	substitution elimination	C. D.	isolation engineering control	
19.	Control by engineering design would not include:				
	A. B.	interlocking installing safety device	C. D.	supervision limitation	
20.	All of the following are examples of engineering controls EXCEPT				
	A. B. C. D.	B. Elimination of lead-based paint.C. Installation of welding curtains during hot work.			
21.	Which of the following is physical injury?				
	А. В.	Poisoning Choking	C. D.	Amputation All of the above	
22.	The	best phrase to describe the entanglement	hazar	rd is:	
	 A. Involves being caught in machine B. Body being pulled and trapped by rotating and tangentially moving parts C. When body is being caught between fixed and moving part of machine D. Body contact with machine parts 				

23.	According to New York Panel Law, physical injury can be defined as:					
	A. B. C. D.	B. damage to a person's body in a physical senseC. impairment of physical condition and substantial pain.				
24.	Con	struction phases include pre-tender, cont	tract m	anagement and		
	A. B.	sub-structure design	C. D.	drawing completion		
25.	Poor	rly maintained scaffold can cause	• • • • • • •	hazard.		
	A. B.	falling from height falling from same level	C. D.			
26.	Preliminary appraisal or HIRARC exercise should be conduct in to identify issues related to safety and health.					
	A. B. C. D.	pre-tender stage contract management stage – pre-const contract management stage – construct completion of work		1		
27.	What is the effect of mechanical hazard risks to safety and health?					
	A. B. C.	Resulting in minor injuries (such as s (such as loss of limbs and death). The body loses its ability to cool itself Increased body temperature, a rapidecreased blood pressure, not conscious Loss of self-control and insane	id pul	se, loss of orientation, confusion,		
28.	Execution of work during sub-structure, super-structure and finishing is done during					
	A. B.	Pre-Tender phase Contract management phase	C. D.	Completion phase Hand over phase		
29.	In co	onstruction phase, mechanical and electr	ical in	stallation is done during		
	A. B.	Pre-Tender phase Contract management phase	C. D.	Completion phase Hand over phase		

30.	Testing and commissioning is done during				
	A. B.	Pre-Tender phase Contract management phase	C. D.	Completion phase Hand over phase	
31.	Necl	tie may cause risk of			
	A. B.	trapping cutting	C. D.	abrasion entanglement	
32.	Type of safety guarding which allow flexibility in accommodating various size stocks is:				
	A. B.	fixed interlock	C. D.	adjustable self-adjusting	
33.	Follo	owing are the major causes of electrical s	shock l	EXCEPT	
	A. B.	Electrostatic hazard Arcs and sparks hazard	C. D.	High voltage Short circuit	
34.	There is one of the most important methods in reducing electrical hazards where it should be executed in any kind of electrical equipment there is:				
	A. B.	Discharge method Earthing method	C. D.	Safety Training Methods Method Key System	
35.	The	greatest danger to humans suffering from	n electi	rical shock results from	
	A. B.	current flow voltage flow	C. D.	defective electrical equipment multimeter	
36.	The primary routes of entry of harmful substances into the body are:				
	 A. eyes, skin, ingestion and inhalation B. inhalation, absorption through the liver and kidneys, ingestion C. skin absorption, ingestion, inhalation, injection D. none of the above 				
37.	Perso	onal hearing protection should be used	•		
	 A. as the first measure adopted to control a noise hazard or to increase protection B. as a temporary measure or as a last resort C. only when you hear ringing in the ears after a noisy activity D. to allow you to concentrate on a work task without interruption 				

38.	Noi	Noise levels are measured in:				
	A. B.	decimals or dB decibel or dB	C. D.	millimeters per second dBs per second		
39.	Неа	alth surveillance can be described as:				
	A. B. C. D.	the measurement of a hazardous subst enzymes in body tissues, fluids or exha- the monitoring of individuals in or- exposure to hazardous substances. medical treatment which assist recover management of the process which help	iled air der to	r. identify changes in health due to		
40.	Vib	ration usually transferred when in contac	t with	the feet or buttocks:		
	A. B.	Whole body vibration Hand arm vibration	C. D.	Hand vibration Feet vibration		
41.	Han	Hand arm vibration may cause:				
	A. B.	Blurring eye Vomiting	C. D.	Heart malfunction Carpal tunnel syndrome		
42.	Following are the basic type of accidents EXCEPT:					
	A. B.	near miss long term	C. D.	minor accident first aid injury		
43.	Following are the basic accident causes EXCEPT:					
	A. B.	basic causes intermediate causes	C. D.	immediate causes direct causes		
44.	The person those are responsible to investigate and report accidents under the Occupational Safety and Health Act (OSHA) if a serious accident or injury at work site happen					
	A. B.	An OSH officer Everyone at the work site	C. D.	Victim The employer		
45.	Belo	w are some accidents needs to be investi	gated:			
	A. B.	Lost time accident Injury accident	C. D.	Material and equipment damage All of the above		

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- 46. In Occupational Safety and Health (OSH) the employer have to do the following things when an accident happens that resulting in a serious injury at his or her work site.
 - A. Carry out an investigation into the circumstances surrounding the accident
 - B. Notify a Director of Inspection as to the time, place and nature of the accident
 - C. Prepare a report in accordance with the regulations
 - D. All of the above
- 47. Below are unsafe actions that led to the cause of the accident EXCEPT
 - A. The equipment does not work properly and appropriately
 - B. Do not follow the safe work protocols
 - C. Eating, drinking and smoking during work
 - D. The maintenance of machines and equipment are not done systematically
- 48. Employers are responsible to complete the following form, if there are workers injured in a workplace
 - A. Employer's Report of Accident
- C. Insurance Claim
- B. Employee's Report of Accident
- D. All of the above
- 49. Following are guide to be followed when conducting an accident investigation EXCEPT
 - A. Carry out an investigation a week after the incident
 - B. Obtain information from individuals involved during the incident
 - C. Protect the evidence derived
 - D. Record all information with photo, date and time completely
- 50. One of the causes of accidents is caused by the problems in the administration. Following are some of the problems commonly associated with the administration EXCEPT
 - A. Policies / procedures that are not standardized
 - B. Communication between supervisors and employee are not clear
 - C. Personal protective equipment is not available
 - D. Lack of awareness about the importance of safety and health at work
- 51. Some of the technique used in hazard analysis EXCEPT
 - I. Just In Time (JIT)
 - II. Job safety analysis (JSA)
 - III. Failure Mode and Effect Analysis (FMEA)
 - IV. Hazard and Operability Studies (HAZOP)
 - A. I only

C. I, II and III only

B. I and II only

D. All of the above

52.	Risl	Risk assessment in the workplace should be carried out for						
	I. II. III.	Routine activities i.e maintenance, shu Activities of all personal having access and visitors) Facilities at the workplace, whether pro- contractors	s to the	e workplace (including subcontractors				
	IV.	non-routine activities						
	А. В.	I only I and II only	C. D.	I, II and III only All of the above				
53.	The	basic principle of risk management.						
	I. II. III. IV.	Accept no unnecessary risks Make risk decision appropriately Not accept risk when benefit overweight Control the risk	h costs					
	A. B.	I only I and II only	C. D.	I, II and III only All of the above				
54.	The	fault tree analysis focus on:						
	I. II. III. IV.	To analyze how and why accident coul Graphic technique To calculate probability of end event Select a component for analysis	d occu	r				
	A. B.	I only I and II only	C. D.	I , II and III only All of the above				
55.	The	orkplace:						
	I. II. III. IV.	Wounds, lacerations, contusions Burns Impact Ejection						
	A. B.	I only I and II only	C. D.	I, II and III only All of the above				

56.		ty guarding is use to prevent body par hine. Types of safety guarding:	t from	contact with the dangerous part of	
	I. II. III. IV.	Fixed Interlock Adjustable Self adjusting			
	A. B.	I only I and II only	C. D.	I , II and III only All of the above	
57.	Whi	ch of the following is the effect on the he	alth ha	azards?	
	I. II. III. IV.	Acute Chronic Injury Death			
	A. B.	I only I and II only	C. D.	I , II and III only All of the above	
58.	Princ	ciple of prevention and control of health l	nazard	s are:	
	I. II. III. IV.	Anticipate Identify Evaluate Control and review			
	A. B.	I only I and II only	C. D.	I , II and III only All of the above	
59.	An accident investigation would:				
	I. II. III. IV.	Determined causes of accident Provide means to uncover new hazards Identify weakness in operating procedur Record fact for future reference	es		
	A. B.	I only I and II only	C. D.	I , II and III only All of the above	

60. Internal investigation team include:

I. Safety officer
III. DOSH officer
IV. Police officer
A. I only
B. I and II only
C. I, II and III only
D. All of the above

END OF QUESTION