

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER I **SESSION 2016/2017**

COURSE NAME

OCCUPATIONAL SAFETY AND

HEALTH

COURSE CODE

: DAY 10102

PROGRAM

: DAA/ DAM/

DAE/DAR/DAT/DAU/DAK

DATE

DECEMBER 2016/JANUARY 2017

DURATION

2 HOURS

ARAHAN

(I) ANSWER ALL QUESTIONS ON THE ANSWER SHEET PROVIDED



(II) THE EXAMINATION PAPERS SHOULD NOT BE TAKEN OUTSIDE THE **EXAMINATION HALL**

THIS EXAMINATION PAPER CONSISTS OF TWELVE (12) PAGES

PROF. MADYA HJ. SMA'L BIN YUSUI Pensyaran Japatan Kenthi Susa, Sergens Son Walaysia

1.	Which of these best describes "the likelihood of an incident occurs"?				
	A. B.	Risk Hazard	C. D.	An event An episode	
2.	Whi	hich of these is the first step to take when conducting a risk assessment?			
	A. B.	Evaluate the risk Identify the hazards	C. D.	Review your findings Update risk assessments	
3.	Which of these is most likely to cause an accident in a workplace?				
	A. B.	Administration Manual handling	C. D.	Inadequate lighting at workplace Excessive noise	
4.	Trailing electrical cables which trail through the middle of a busy walkway:				
	A. B. C. D.	Are very unlikely to cause any injury Are likely to injure someone if they trip Can be defined as high level health and Can be defined as high level fire hazard	safety		
5.	Which of these is most likely to be a result of handling an overloaded electrical socke				
	A. B.	Frostbite Asbestosis	C. D.	Asphyxiation Electric shock	
6.	Why	should near misses be reported?		and the second second	
	A. B. C. D.	To educate employees To test the first aider To ensure complete recovery To stop a more serious event occurring		TERBUKA	
7.	All	of the following are examples of engineer	ring co	ontrols EXCEPT	
	A. B. C. D.	adjustable workstation to accommodate elimination of lead-based paint. installation of welding curtains during hinstallation of sound-dampening shields	not wo	rk.	

- 8. Which of the following is an example of an administrative control?
 - A. Rotating jobs to minimize exposure to noise.
 - B. Enclosing loud equipment to reduce noise exposure.
 - C. Training employees to properly wear hearing protection to minimize noise exposure.
 - D. A and C
- 9. Which of the following statements is true?
 - A. PPE is the lowest level of hazard control.
 - B. PPE may be used with engineering and administrative controls for the most effective control measures.
 - C. PPE is considered first when implementing hazard controls.
 - D. A and B
- 10. Which of the following is an example of a preventive maintenance program?
 - A. Conducting emergency action plan training for severe weather
 - B. Regularly inspecting electrical panels to determine proper wiring
 - C. Replacing pressure relief valves on hazardous material tanks according to the manufacturer's recommendations
 - D. B and C
- 11. Which of the following elements of an occupational health program does OSHA not require?
 - A. Maintenance and confidentiality of employee medical records
 - B. Access to medical services and first aid
 - C. Health and wellness program
 - D. Medical screening for some OSHA standards
- 12. Some of the technique used in hazard analysis are:
 - A. Hazard Identification, Risk Assessment and Risk Control (HIRARC)
 - B. Job safety analysis (JSA)
 - C. Failure Mode and Effect Analysis (FMEA)
 - D. All of the above
- 13. Accident classification is divided into three levels, which of the following are NOT included in the classification of accidents.
 - A. Major /Serious injury

C. Fatality due to traffic accidents on the way to work

B. Near misses

D. Damage to properties/equipments



- 14. Generally, there are three main arguments that confirm why occupational safety and health should be managed, it is,
 - A. Legal, economic and humanitarian arguments
 - B. Economic, humanitarian and education arguments
 - C. Education, engineering and economic arguments
 - D. Humanitarian, engineering and environment arguments
- 15. Which of the following is TRUE regarding the definition of an accident?
 - A. Accidents can cause long-term problems (chronic). All or part of the body can be affected.
 - B. Accidents are unexpected sequence of futurity and unplanned, that occur through a combination of several reasons and result in physical injury to an individual, property damage, accidents and loss nearly.
 - C. Is such a force strong enough to cause injury or damage to property
 - D. Harm when control procedures are not followed
- 16. Risk of accidents due to electrical hazards depending on how and where materials or electrical wires are used. Act involved in electrical hazards are as below **EXCEPT**
 - A. Occupational Health and Safety Act, 1994
 - B. The Factories and Machinery Act 1967
 - C. Electricity Supply Act 1990
 - D. Work Act 1955
- 17. The list below shows some effects of chemical hazards on workers which are covered by the Occupational Safety and Health Regulation **EXCEPT**
 - A. Acute effects short-term effects have been common at high doses and as corrosive skin and cause irritation.
 - B. Chronic toxic to the respiratory system, liver, kidneys, reproductive or nervous.
 - C. Blockage of sweat glands causing prickly heat
 - D. Carcinogenic May cause cancer
- 18. What is the risks of mechanical hazard to the safety and health of workers?
 - A. Resulting in minor injuries (scratches and sprains) or serious consequences (loss of limbs and death).
 - B. The body loses its ability to cool itself
 - C. Increased body temperature, a rapid pulse, loss of orientation, confusion, decreased blood pressure, unconscious and coma
 - D. Loss of self-control and insanity.



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19.	Accident prevention and control is important in controlling injuries, the follow preventive measures for chemical hazards are true EXCEPT				
	A. B. C. D.	Use of appropriate personal protective of Continuous exposure to chemical vapor Good ventilation Wash hands thoroughly after handling a	'S		
20.	Work in confined space or narrow space included in the main list of dangerous activities Below is a list of risks that may occur to workers in a confined space EXCEPT				
	A. B.	Ergonomic problem Toxicities	C. D.	Hypertension Fire and explosion	
21.	General deterrence is required for employees who/who are they must be trained and qualified in this field and has to be certified as healthy physical and mentally.				
	A. B.	work in confined spaces working in high rise buildings	C. D.	work in the kitchen work in the laundry room	
22.	According to The National Safety Council, machine guarding is a system of protective measures around machines to reduce the risk of injury to,				
	A. B.	Operator and employer Workers and operators	C. D.	Operator and machine Machine and others equipment	
23.		does not lie entirely on the	equipr	nent used. "The most important thing	
	is our own efforts to keep personal safety when working to prevent any injury as well as to keep our health at its the best," These words appropriate for the hazard				
	A. B.	Physical Biology	C. D.	Environment Ergonomic	
24.	This is one of the most important method in reducing electrical hazards where workers can be electrocuted by electrical equipment,			ing electrical hazards where workers	
	A. B.	Discharge method Earthing method	C. D.	Safety Training Methods Method Key System	



25.	Which of the following are employer and worker responsibilities under the Chemical
	Hazard Regulation?

- A. control of sources of contamination in excess of the occupational exposure limits
- B. provide respiratory protective equipment
- C. participate in employee training
- D. all of the above
- 26. Wearing anti-vibration gloves means:
 - A. You are completely protected against vibration
 - B. You can use machinery for extended periods of time
 - C. There's still a possibility that the vibration will affect you
 - D. You will feel absolutely no vibration
- 27. Chemicals may enter the body through:
 - A. Ingestion through the mouth
 - B. The eyes and mucous membranes
 - C. The skin
 - D. All of the above
- 28. The workplace hazard due to excessive noise may be controlled by:
 - A. Air conditioning

C. Shift work

B. Ventilation

D. PPE

- 29. Neck tie may cause risk of
 - A. trapping

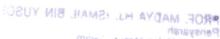
C. abrasion

B. cutting

D. entanglement

- 30. In term of priorities for hazard control, personal protective equipment should:
 - A. Always be used to control hazards
 - B. Only be used if other measures to control hazards are not practicable, or if other measures have not reduced the risks sufficiently
 - C. Be the first measure adopted to control hazards or to increase protection
 - D. Be used in preference to isolating the hazard
- 31. What must your employer do if you have to lift a load?
 - A. Be present while you lift the load
 - B. Nothing, it's your responsibility
 - C. Provide a risk assessment of the task





Ensure that a supervisor is always present whenever workers are lifting heavy l

CONFIDENTIAL

D

		load			
32.	Ordinary things that may contain hazardous substances include:				
		General household cleaning product Paint Antiseptic All of the above	ts		
33.	The greatest danger to humans suffering from electrical shock results from				
	A. B.	current flow voltage flow	C. D.	defective electrical equipment multimeter	
34.	Fac	tors that contribute to stress in the wo	orkplace	e are:	
	В. С.	Fear of job loss Technological change Unpredictable working hours All of the above			
35.	Lea	d is a hazardous substance because it	is		
	A. B.	toxic flammable	C. D.	corrosive heavy TERBUKA	
36.	Noi	ise levels are measured in		Cetters and control of the control o	
	A. B.	decimals or dB decibel or dB	C. D.	millimeters per second dBs per second	
37.		e person who is responsible to invest ety and Health (OSH) if a serious acc		d report accidents under the Occupational injury at work site happen	
	A. B.	An OSH officer Everyone at the work site	C. D.	Victim The employer	
38.	Bel	ow are some accidents which needs t	o be inv	restigated	
	A. B.	Lost time accident Injury accident	C. D.	Material and equipment damage All of the above	

- 39. In Occupational Safety and Health (OSH) the employer have to do the following things when an accident happens that results in 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
- 40. 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
- 41. 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
- 42. 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
- 43. 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. Safety equipment (PPE) is not available
 - D. Lack of awareness about the importance of safety and health at work
- 44. Below are things to do during the process of investigation of information
 - A. Conducting interviews to all the individuals involved
 - B. Identify areas involved in accidents
 - C. Collect all samples, pictures and picture the accident
 - D. All of the above



- 45. Here are some reasons why accidents are not reported EXCEPT
 - A. Manager does not possess skilled to make a report in accordance with regulations set by OSHA.
 - B. Manager who were not properly trained feel uncomfortable to write report.
 - C. Manager or supervisor solves problems using methods other than those required by OSHA regulations.
 - D. The number of accidents reported were done purposely in order to maintain the safety records of the company.
- 46. Here is the correct action in accidents prevention measures:
 - A. Find reasonable grounds to implement it
 - B. Reviewed through the risk assessment process to ensure that no changes will be implemented to prevent accident
 - C. Ensure tight schedule for implementation of accident prevention measure is established.
 - D. No further action is made.
- 47. A common mistake during an accident investigation activity, EXCEPT
 - A. Often what is stated in an interview to be designed by the desire to escape or blame others, or to protect friends
 - B. Professionals involved in the investigation needs to be equipped with specialized training, or self-study investigation techniques.
 - C. Employees who speak the truth during interview are always guilty
 - D. There may be another agenda in play in the accident investigation process, and not to determine the root cause of accidents.
- 48. Here are steps to be followed while conducting the accident investigation, **EXCEPT**
 - A. Interview all employees

C. Take a picture or record a scene

B. Identify the culprits

D. Record all evidence

49 Why need to carry out risk assessment in the workplace?



- I. Logical and cost-effective management of occupational safety and health (OSH)
- II. Legal requirement
- III. Management system standard requirement
- IV Employment requirement

A. I only

C. I, II and III only

B. I and II only

D. All of the above

50	Basic	components	of	risk	management.
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- I. Hazard Identification
- II. Risk Assessment
- III Risk Control
- Review Control Measure IV
- I only A.

C.

I, II and III only

I and II only B.

All of the above D.

Some of the technique used in hazard analysis **EXCEPT**

- Just In Time (JIT) I.
- Job safety analysis (JSA) II.
- III Failure Mode and Effect Analysis (FMEA)
- Hazard and Operability Studies (HAZOP) IV
- A. I only

I, II and III only

I and II only B.

- All of the above D.
- The types of physical injury can happen in the workplace
 - I. Wounds, lacerations, contusions
 - II. **Burns**
 - **Impact** III
 - IV Ejection
 - A. I only

C.

I, II and III only

I and II only B.

- D.
 - All of the above
- 53 The basic phases in construction work.



Contract Management II.

- Completion III
- Documentation IV
- I only A.

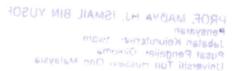
C.

I, II and III only

I and II only B.

D.

All of the above



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54	Safety guarding is use to prevent body part from contact with the dangerous part of machine.
	Types of safety guarding

Ŧ	Fixed	
1.	LIXCU	

II. Interlock

III Adjustable

IV Self-adjusting

A. I only

C. I, II and III only

B. I and II only

D. All of the above

55 Which of the following is/are the effect due to health hazards?

I. Acute illness

II. Chronic illness

III Injury

IV Death

A. I only

C. I, II and III only

B. I and II only

D. All of the above

Principle of prevention and control of health hazards are

I. Anticipate

II. Identify

III Evaluate

IV Control and review

A. I only

C. I, II and III only

B. I and II only

D. All of the above

57 Which of the following are the compilations of severe heat stress in body?

I. Heat syncope

II. Heat stroke

III Heat rash

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IV Heat transfer

A. I only

C.

I, II and III only

B. I and II only

D.

All of the above

PROF. MADYA HJ, ISMAIL BIN YUSOF Pensyarah Jatatan Kejuruterann awam Pusat Pengajian Diguma Pusat Pengajian Diguma Sivershi Tun mucasin One Majaysia

58	Any unplanned event that causes injury, illness, property damage or harmful disruption of
	work process refers to

- I. Accident
- II. Incident
- III Emergency
- IV Injury
- A. I only

- C.
- I, II and III only

B. I and II only

- D. All of the above
- 59 Basic types of accidents are
 - I. Minor accident
 - II. Serious accident
 - III Near miss accident
 - IV Long term accident
 - A. I only

- C.
- I, II and III only

B. I and II only

- D. All of the above
- Accident-analysis reports are called for when any of the following circumstances result from the accident:
 - I. Death
 - II. Loss of consciousness
 - III Near miss accident
 - IV Minor injury



- A. I only
- C. I, II and III only

B. I and II only

D. All of the above

- END OF QUESTION -