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UNIVERSITI TUN HUSSEIN ONN MALAYSIA

**FINAL EXAMINATION
SEMESTER II
SESSION 2017/2018**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH
COURSE CODE : BEE 12202
PROGRAMME CODE : BEJ
EXAMINATION DATE : JUNE/JULY 2018
DURATION : 2 HOURS
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF SEVEN (7) PAGES

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PART A: MULTIPLE CHOICE (50%)

- Q1** The Safety and Health Management System consists of;
- (a) A set of interrelated elements that support occupational safety and health policy and objectives
 - (b) Mechanisms that are in place to achieve safety objectives
 - (c) Methods that are in place to continually improve safety and health performance
 - (d) All of the above
- Q2** To establish a culture of workplace safety, as well as to comply with OSHA IIP Program (Injury and Illness Preventive), it is imperative that communication is not left to chance. Giving and receiving feedback with employees and contractors is vital. Therefore, organizations should implement and maintain a procedure for:
- (a) Praise and Discipline
 - (b) Receiving, documenting and responding to relevant communications from external, interested parties
 - (c) Instructions for the Safety Suggestion Box
 - (d) Good Listening Skills
- Q3** Management give their best effort to correct unsafe condition/practices but employees in a good position to observe the _____
- (a) Hazards
 - (b) Health
 - (c) Safety
 - (d) Risk
- Q4** Which of the following are the correct types of hazard inspection procedures?
- I Statutory inspection
 - II Periodic inspection
 - III Formal and Informal inspection
 - IV Electrical System Inspection
- (a) I and II only
 - (b) III and IV only
 - (c) I, II and III only
 - (d) I,II and IV only
- Q5** What are the two most important factors in creating a culture of safe work practices?
- (a) Praise and Discipline
 - (b) Networking and Compliance
 - (c) Management Commitment and Employee Involvement
 - (d) Decision Making and Problem Solving



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- Q6** The risk management process involves some of the OSH standard procedures. Which of the following is NOT included in the main standard procedures?
- (a) Identifying a hazard
 - (b) Assessing the risk
 - (c) Putting in place control measures
 - (d) Conducting interview
- Q7** The source of hazards can be classified in a few categories which are:
- I Mechanical Hazard
 - II Electrical Hazard
 - III Chemical Hazard
 - IV Ergonomic hazard
- (a) I and II only
 - (b) I, II, III and IV
 - (c) I, II and III only
 - (d) None are correct
- Q8** One of important Hazard Identification processes are:
- (a) Audits conducted by OSHA
 - (b) Walk around Inspections
 - (c) Comprehensive Survey
 - (d) Observations
- Q9** Which of the following choices is NOT the method used in Hazard analysis?
- (a) Job Safety Analysis
 - (b) Fault Tree Analysis
 - (c) Economic Analysis
 - (d) Hazards and Operability Studies
- Q10** Regarding Hazardous Communication, what is each employer NOT responsible for:
- (a) Providing a list of all company hazards to each employee in written form
 - (b) Identify and list hazardous chemicals in their workplaces
 - (c) Obtain MSDS's and labels for each hazardous chemical, if not provided by the manufacturer, importer or distributor
 - (d) Implement a written HAZCOM program, including labels, MSDS's and employee Training
- Q11** The terms incidents and injuries are often used interchangeably. Actually the meanings are:
- (a) Synonymous
 - (b) Different
 - (c) Diametrically opposed
 - (d) Identical

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- Q12** Water is used to extinguish
- (a) Class-A fires
 - (b) Class-B fires
 - (c) Class-C fires
 - (d) All of the above
- Q13** The requirement of a safety system has
- I Safe system at work
 - II Safety documentation
 - III Appropriate training for staff and student when required
 - IV Worker Representative
- (a) I and II only
 - (b) I, II and III only
 - (c) II, III and IV
 - (d) I, II, III and IV
- Q14** Below are the hazards faced at work EXCEPT
- (a) Wearing slippers during loading/unloading goods.
 - (b) Bare wires are not insulated.
 - (c) A tank filled with petrol is next to a spot-welding station.
 - (d) The toilet is too dirty to be used.
- Q15** The electric current is safe to be touched with bare hands at:
- (a) 1mA – 5mA
 - (b) 6mA – 15mA
 - (c) 16mA – 30mA
 - (d) 31mA and above
- Q16** What are the two main causes of incidents in the workplace?
- (a) Unsafe acts and unsafe people
 - (b) Unsafe people and unsafe machines
 - (c) Unsafe conditions and unsafe machines
 - (d) Unsafe acts and unsafe conditions
- Q17** Which is the most effective method of reducing contamination to workers?
- (a) PPE
 - (b) Administration controls
 - (c) Fans
 - (d) Engineering controls
- Q18** On the job injuries and illness cost money, time, and effort. What is the most practical way to manage these losses?
- (a) Make sure safety is part of labour contracts
 - (b) Aggressive claims handling
 - (c) Effective safety and loss control programs
 - (d) Good insurance coverage

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- Q19** The lighting system failed, causing a short, which resulted in a fire. What class of fires would this be?
- (a) Class A
 - (b) Class B
 - (c) Class C
 - (d) Class D
- Q20** Emergencies can arise in an organization at any time and from many different causes. The best safety management tool for minimizing disaster is to:
- (a) Screen candidates and hire only safe workers
 - (b) Have a written comprehensive management plan
 - (c) Keep in good contact and relations with the local fire department
 - (d) Purchase only safe equipment and materials
- Q21** Why a substance is 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.
- Q22** Which of the followings is NOT considered as the major air pollutants?
- I Smoking
 - II Barbecue
 - III Cars
 - IV Lorries
- (a) I and II only
 - (b) III and IV only
 - (c) II, III and IV only
 - (d) I, II, III and IV
- Q23** The following are sources of chemical hazards.
- I Bacteria
 - II Mists
 - III Dusts
 - IV Fumes
- (a) I and II only
 - (b) I, II, III only
 - (c) II, III and IV only
 - (d) I, II, III and IV
- Q24** The risk from electrical shock can be prevented or minimized if the person:
- (a) Regular attending electrical short course
 - (b) Good at electrical design
 - (c) Always make sure the electrical item is in good condition
 - (d) Pass the electrician exam

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- Q25** The Biological Monitoring process of toxic substance in human body may include the following samples EXCEPT:
- (a) Blood
 - (b) Saliva
 - (c) Urine
 - (d) Teeth

PART B: SUBJECTIVE (50%)

- Q1** (a) Risk is a combination of the likelihood of an occurrence of a hazardous event with specified period or in specified circumstances and the severity of injury or damage to the health of people, property, environment or any combination of these caused by the event. What are the basic principles of Risk Management?
(4 marks)
- (b) HIRARC is a compound word typically used in Occupational Safety and Health which is made up of three processes running one after the other.
- (i) Explain three basic elements for an industrial automated system.
(3 marks)
 - (ii) Explain how would you organize activities for each process in HIRARC to implement safety and health program in your company?
(6 marks)
- (b) Explain each element of Hierarchy of Control in how to reduce the number of accident in your company. Illustrate the hierarchy of control in risk management.
(12 marks)
- Q2** (a) Define the definition of accident.
(2 marks)
- (b) Explain why accident investigation should be conducted.
(4 marks)
- (c) Azman, the Sales Manager at Daya Maju Sdn. Bhd., was in his office when he received a phone call from Siva. Siva reported that his hand had been injured and that he needed medical attention. He told Jim that he had been walking onto a job site while calling a client on his cell phone. He failed to notice a pile of debris stored near the sidewalk and accidentally tripped on a broken piece of pallet. He put his hands out to stop his fall and his right hand landed on a corner of the broken pallet, slicing a deep cut into his hand. He wanted to know what he should do next. Based on the scenario, answer the following questions:



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- (i) Determine the primary action that Azman should do. (4 marks)
- (ii) Justify either accident investigation is required or not. (5 marks)
- (iii) Identify **TWO (2)** root causes of the accident. (4 marks)
- (iv) Suggest **THREE (3)** preventive measures should be recommended to the company to prevent similar accidents in the future. (6 marks)

----- **END OF QUESTIONS** -----

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