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**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER I  
SESSION 2018/2019**

COURSE NAME : OCCUPATIONAL SAFETY AND HEALTH  
COURSE CODE : BEE 12202  
PROGRAMME CODE : BEJ/BEV  
EXAMINATION DATE : DECEMBER 2018/JANUARY 2019  
DURATION : 2 HOURS  
INSTRUCTION : ANSWER ALL QUESTIONS

THIS QUESTION PAPER CONSISTS OF **EIGHT (8)** PAGES

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**PART A: MULTIPLE CHOICE (50%)**

- Q1** A hazard analysis can be used to evaluate a potential hazard; what other information should be considered?  
(a) Injury reports  
(b) Statistical data  
(c) Risk assessment  
(d) Fatality investigations  
(2 marks)
- Q2** Who are the customers of the occupational safety function?  
(a) All employees in an organization  
(b) All employees in an organization and the community as a whole  
(c) The safety manager, supervisor, peers, and subordinates  
(d) From the CEO-level of management to the line worker  
(2 marks)
- Q3** Water is used to extinguish  
(a) Class-A fires  
(b) Class-B fires  
(c) Class-C fires  
(d) All of the above  
(2 marks)
- Q4** A tool that enables a team to identify, explore and graphically display the possible causes of an incident or hazardous conditions is  
(a) A fishbone diagram  
(b) An affinity diagram  
(c) A matrix diagram  
(d) An interrelationship diagram  
(2 marks)
- Q5** The electric current is safe to be touched with bare hands at  
(a) 1 mA – 5 mA  
(b) 6 mA – 15 mA  
(c) 16 mA – 30 mA  
(d) 31mA and above  
(2 marks)
- Q6** As referring to OSHA 1994, the established of the Council is called  
(a) National Council for Occupational Safety and Health  
(b) National Council for Occupational Safety and Welfare  
(c) National Council for Occupational Goodness and Fitness  
(d) National Council for Occupational Victims and Care  
(2 marks)

- 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
- (2 marks)
- Q8** Which of the following techniques would be most likely to increase the motivation and satisfaction of people at your working place?  
(a) Job placement  
(b) Responsibility of workers  
(c) Satisfaction of workers  
(d) Job enrichment
- (2 marks)
- Q9** The main goal of Worker's Compensation law is to  
(a) all of the following  
(b) give the employee the opportunity to plead his/her case and speed up the waiting period for just compensation  
(c) eliminate negligence and product liability claims  
(d) compensate workers for injuries caused by incidents arising out of and in the course of employment
- (2 marks)
- Q10** Any occurrences of job injuries or illness may affect 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
- (2 marks)
- Q11** The terms incidents and injuries are often used interchangeably. Actually the meanings are  
(a) synonymous  
(b) different  
(c) diametrically opposed  
(d) identical
- (2 marks)
- Q12** 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
- (2 marks)

- 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
- (2 marks)
- Q14** There are several factors that are often used to determine when an organization should have the services of a full time Safety Professional. Which of the following 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
- (2 marks)
- Q15** 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
- (2 marks)
- Q16** The change of climate will cause the followings, EXCEPT to
- (a) increase in AIDS patients  
(b) more lands will be inundated  
(c) increase in skin related cancer cases  
(d) increase sickness to human
- (2 marks)
- Q17** It is illegal for a manufacturing company to discharge mercury waste without treatment into the environment. According to which of the following legislation is this true?
- (a) EQA 1974  
(b) OSHA 1994  
(c) FMA 1967  
(d) ISO 14000
- (2 marks)



- Q18** A worker mixing chemicals must NOT wear
- (a) Safety glasses
  - (b) Goggles
  - (c) Gloves
  - (d) Long sleeves
- (2 marks)
- Q19** Environmental audit means a periodic, systematic, documented and objective evaluation to determine, EXCEPT
- (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
- (2 marks)
- Q20** What is a job hazard analysis?
- (a) A tallying of all the hazards found on the job
  - (b) A technique that focuses on job tasks as a way to identify and correct hazards
  - (c) A technique for analyzing job hazards and assigning them to appropriate categories
  - (d) A technique for evaluating employees on the job to make sure they are working safely
- (2 marks)
- Q21** The main reason of realizing the safety issues at work is
- (a) To acquire a compensation from an insurance company after accident
  - (b) To be promoted at work
  - (c) To go home safely
  - (d) To reduce the cost of the company
- (2 marks)
- 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
- (2 marks)

- 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
- (2 marks)
- Q24** Which is the most effective method of reducing contamination to workers?
- (a) PPE
  - (b) Administration controls
  - (c) Fans
  - (d) Engineering controls
- (2 marks)
- 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
- (2 marks)

**PART B: SUBJECTIVE (50%)**

- Q1** (a) In general, risk management for a company is important to ensure business sustainability in a long run. Describe the responsibilities of risk management team.
- (4 marks)
- (b) **Figure Q1(b)** shows 3 stages of contaminated air which may harm one's health. Recommend two (2) risk control measures for each stage to address the current problems.
- (12 marks)
- (c) In Occupational Safety and Health, HIRARC is an abbreviated word usually used to represent a particular process which is persistent and closely related to each other.
- (i) Describe the HIRARC process in the form of flowchart.
- (3 marks)

- (ii) Explain briefly, how to conduct activities for each process in HIRARC to ensure the safety and health programs in a company.  
(6 marks)

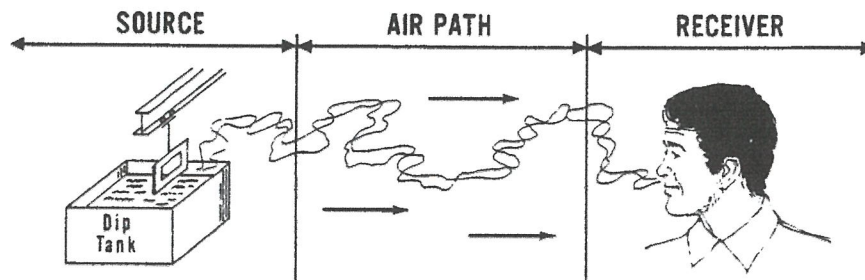
- Q2**
- (a) Data collection tool is vital in gathering accident information. Clarify two (2) benefits of using it.  
(2 marks)
- (b) Explain three (3) reasons to investigate workplace incident.  
(3 marks)
- (c) Halim is an OSHA officer at construction company Bina Maju Sdn. Bhd. One day, he received a report asserting that one of the labours at the construction site was seriously hurt which caused by severe cut under his feet. Furthermore, he was told that the labour came to work wearing sandals and was walking up the stairs of the building while texting via phone when accidentally stepped on the sharp wood fragment. Based on the scenario, answer the following questions:
- (i) Justify, whether the accident supposed to be investigated or not.  
(4 marks)
- (ii) Determine the immediate action that Halim should carry out.  
(4 marks)
- (iii) Identify three (3) root causes of the accident.  
(6 marks)
- (iv) Propose three (3) preventative measures in order to prevent similar accidents in the future.  
(6 marks)

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

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**Figure Q1(b)**

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