



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

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

**COURSE NAME** : OSH LEGISLATION AND  
REGULATION

**COURSE CODE** : BNS 10103

**PROGRAMME** : BNS

**EXAMINATION DATE** : DECEMBER 2019 / JANUARY 2020

**DURATION** : 2 HOURS 30 MINUTE

**INSTRUCTION** : ANSWER ALL QUESTIONS

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THIS QUESTION PAPER CONSISTS OF FIVE (5) PAGES

**Q1** (a) Factories and Machinery (Building Operations and Works of Engineering Construction) (Safety) Regulations 1986 or BOWEC deals with safety and health at construction workplace.

List **FOUR (4)** duties of site safety supervisor as in regulation 25 of BOWEC. (4 marks)

(b) **Figure Q1 (b)** show example of common scaffold use in construction site. Using your knowledge in BOWEC, evaluate **TWO (2)** points for given regulation:

(i) Construction (Regulation 72) (3 marks)

(ii) Maintenance (Regulation 73) (3 marks)

(iii) Inspection of Scaffold (Regulation 85) (3 marks)

(iv) Boards and planks in working platforms (Regulation 87) (3 marks)

(c) Part XII of BOWEC govern with excavation work. Classify **THREE (3)** general requirements for excavation work. (6 marks)

(d) All vehicles used at construction worksites must be roadworthy and registered with the appropriate authority in accordance with the \_\_\_\_\_.

Define the \_\_\_\_\_. (1 mark)

(e) Identify minimum hours per week a part time site safety supervisor must spend on safety supervision within the construction site? (1 mark)

(f) The main contractor of a worksite must establish a safety committee for the purpose of keeping the safety and health of workers at construction site. The safety committee shall meet at least \_\_\_\_\_.

Define the \_\_\_\_\_. (1 mark)



**Q2** (a) Under Factories and Machinery (Lead) Regulation 1984, the employer shall implement engineering and work practice controls to reduce and maintain employee exposure to lead below the permissible exposure limit (PEL).

(i) Define the PEL for lead average over an eight-hour period. (2 marks)

(ii) Analyze the method of controls use (engineering and work practice) to reduce and maintain employee exposure to lead. (10 marks)

(b) Regulation 6 of Factories and Machinery (Mineral Dust) Regulations 1989 mentioned permissible exposure limit (PEL) for several mineral dust.

Generalize PEL of **FIVE (5)** mineral dusts under regulation 6. (5 marks)

(c) Prepare (in general) exposure monitoring procedure as under Factories and Machinery (Noise Exposure) Regulations 1989. (8 marks)

**Q3** (a) Section 29 (2) of OSH Act 514, an occupier of a place of work shall employ safety and health officer at the place of work.

(i) List **FOUR (4)** class of industries that are required to employ safety and health officer. (4 marks)

(ii) Recite **FOUR (4)** duties of safety and health officers. (4 marks)

(ii) Point out **FIVE (5)** contents of the safety and health officer report pertaining their activities. Explain briefly each point of the contents. (10 marks)

(iii) Define the penalty to an occupier who did not employ a competent person to act as a safety and health officer at the place of work? (2 marks)

(b) Section 31 in OSH Act 514 mentioned there are circumstances that require the establishment of safety and health committee at place of work.

(i) Illustrate **TWO (2)** settings of the safety and health committee based on the number of the workers. (5 marks)

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**Q4** (a) You are working with a company that involved with installation for the production, processing or treatment of inorganic chemicals using condensation process. The managing director has asked you to make a report on industrial activity of the company to be sent to the DOSH as under sub-regulations 14(1) under Control of Industrial Major Accident Hazards Regulations 1996 (CIMAH 1996).

Analyze your company condensation process and make an appropriate report, based on below guidance:

- (i) Information on hazardous substance
- (ii) Information on the installation
- (iii) Information on system of management of industrial control activity
- (iv) Information on potential major accident

(10 marks)

- (b) Use and Standards of Exposure of Chemicals Hazardous to Health Regulations 2000 applies to all places of works where chemicals hazardous to health are used. Examples of such chemicals are asbestos, calcium oxide and glycidol.

You are requiring to use Part VII (Information, Instruction and Training) and apply it to develop a safe workplace for you company.

(10 marks)

- (c) A Safety Data Sheet as under Classification, Labelling and Safety Data Sheet of Hazardous Chemicals Regulations 2013 shall contain the information relating to hazardous chemical supplied and chemical mixture.

List **FIVE (5)** information requires to be in Safety Data Sheet

(5 marks)

**-END OF QUESTIONS-**

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**Figure Q1 (b): Example of scaffold**

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