



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY  
FACULTY OF HEALTH AND APPLIED SCIENCES**

**DEPARTMENT OF HEALTH SCIENCES**

<b>QUALIFICATION:</b> BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES	
<b>QUALIFICATION CODE:</b> 08 BEHS	<b>LEVEL:</b> 7
<b>COURSE CODE:</b> OHS 711S	<b>COURSE NAME:</b> OCCUPATIONAL HEALTH AND SAFETY
<b>SESSION:</b> JULY 2019	<b>PAPER:</b> THEORY
<b>DURATION:</b> 3 HOURS	<b>MARKS:</b> 100

<b>SECOND OPPORTUNITY / SUPPLEMENTARY EXAMINATION QUESTION PAPER</b>	
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<b>INSTRUCTIONS</b>
<ol style="list-style-type: none"><li>1. Answer ALL the questions.</li><li>2. Write clearly and neatly.</li><li>3. Number the answers clearly.</li></ol>

**THIS PAPER CONSISTS OF 3 PAGES (Excluding this front page)**

## SECTION A [25 MARKS]

### QUESTION 1

[15 MARKS]

1. Explain your understanding of the following terms: -
  - 1.1 Risk management. [1.5]
  - 1.2 Toxicity of chemicals. [1.5]
  - 1.3 Material safety data sheets. [1.5]
  - 1.4 Direct current. [1.5]
  - 1.5 Mutagenic. [1.5]
  - 1.6 Teratogenic. [1.5]
  - 1.7 'Permit to Work Systems'. [1.5]
  - 1.8 Strichiometric concentration. [1.5]
  - 1.9 Pure risk. [1.5]
  - 1.10 Pneumoconiosis. [1.5]

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### QUESTION 2

[10 MARKS]

2. Scaffolding.
  - 2.1 Provide the safety requirements that scaffolds platforms might possess for safe use. [6]
  - 2.2 Explain other safety precautions that need to be taken when working on very high platforms. [4]

**SECTION B [32 MARKS]**

**QUESTION 3**

**[16 MARKS]**

3. Most of the accidents are preventable as they are caused by unsafe acts and conditions created by human beings. When accidents occur they must be investigated to determine the cause.
- 3.1 Distinguish between immediate and indirect causes of accidents and give an example in each case. [6]
- 3.2 Outline benefits of investigating near misses and accidents. [4]
- 3.3 Briefly explain important concepts one can learn from the Ice berg theory. [6]

**QUESTION 4**

**[16 MARKS]**

4. The construction industry differs from all other industrial sectors.
- 4.1 Briefly explain any three (3) reasons why the construction industry is likely to record high number of accidents than some of the other industries. [6]
- 4.2 Identify measures that can be put in place to mitigate accidents caused by the reasons you have mentioned above on 4.1. [3]
- 4.3 Enumerate important safety measures to be taken when using the following:
- 4.3.1 Cranes. [3]
- 4.3.2 Boiler. [4]

**SECTION C [43 MARKS]**

**QUESTION 5**

**[20 MARKS]**

- 5.0 Workplace assessment
- 5.1. State the possible health effects of expose to the following chemicals
- 5.1.1 Mercury. [2]
- 5.1.2 Cyanide. [2]

- 5.1.3 Lead. [2]
- 5.1.4 Cadmium. [2]
- 5.2 Identify precautions to be taken into consideration during storage and handling of flammable liquids. [6]
- 5.3 Identify exposures routes for chemicals in the workplace. [3]
- 5.4 Describe the appropriate Personal Protective Clothing/ Equipment (PPC/E) to be worn when conducting electrical work. [3]

**QUESTION 6**

**[23 MARKS]**

6. Occupational Health and Safety Statistics is important in making informed decisions.
- 6.1 Mention and explain three uses of occupational health and safety statistics. [6]
- 6.2 Identify six users of Occupational health and safety statistics. [6]
- 6.3 Provide any information that can be collected from an elevator? [5]
- 6.4 Describe any four sources of Occupational health and safety within a country. [6]

**[TOTAL: 100 MARKS]**

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