EX0024B

BINDURA UNIVERSITY OF SCIENCE EDUCATION

DEPARTMENT OF ENVIRONMENTAL SCIENCE

BSC SAFETY, HEALTH AND ENVIRONMENTAL MANAGEMENT ESM402

BSC PART IV EXAMINATION SAFETY, HEALTH AND RISK MANAGEMENT

2 HOURS INSTRUCTIONS

Answer question 1 and any two questions from Section B



SECTION A (COMPULSORY)

1. Examine the applicability of the risk management process outlined in ISO 31000 of 2018.

[30 Marks]

SECTION B

2. With reference to a gold mine, apply the 5x5 risk matrix to the following risks:

(a) Chemical risk

[4 Marks]

(b) Fire risk

[4 Marks]

(c) Dust risk

[4 Marks]

(d) Noise risk

[4 Marks]

(e) Human-machine interaction.

[4 Marks]

3. For any manual labour intensive company of your choice,

(a) Explain the ergonomic risk assessment process.

[10 Marks]

(b) Demonstrate how the hierarchy of control can be applied in ergonomic

risk management.

[10 Marks]

4. Develop a baseline hazard risk register for a construction company.

[20 Marks]

5. The Pneumoconiosis Act is adequate in managing dust related risks in

Zimbabwe. Discuss.

[20 Marks]

END OF PAPER

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