

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

**NOV 2023**

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**SECTION A (COMPULSORY)**

1. For any named organisation, discuss the applicability of any five risk management principles outlined in the ISO 31000 of 2018. **[30 Marks]**

**SECTION B**

2. Develop a risk management procedure for a mining company. **[20 Marks]**
3. With reference to a construction company, describe the following risk assessment methods:
- (a) Hazard Operability Studies, **[10 Marks]**
- (b) Fault Tree Analysis. **[10 Marks]**
4. Demonstrate how you would apply the hierarchy of risk control to a dusty occupation. **[20 Marks]**
5. A material safety data sheet is the only critical chemical risk management tool at a mining organisation. Discuss. **[20 Marks]**

**END OF PAPER**