UNAM
UNIVERSITY OF NAMIBIA

FACULTY	**Agriculture, Engineering and Natural Sciences**		
DEPARTMENT	**Geosciences**		
SUBJECT	**Project Management and Economics**		
SUBJECT CODE	**S6921GP**		
PAPER	**PAPER 1 – combined theory & practical**		
DATE	**June/July 2026**		
DURATION	**180 min (3 hours)**	**MARKS**	**100**

FIRST OPPORTUNITY EXAMINATION

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External Moderator: Prof Zhang Da

This question paper consists of 4 pages (including this one)

Instructions

- Closed book examination
- This question paper consists of two parts: A and B. Each part is worth 50 marks.
  - answer any two (2) questions in section A
  - answer all three (3) questions in section B.
- Start each question on a new page.
- Recommendation: read first all subordinate questions before you answer.
- Calculators necessary.

UNIVERSITY OF NAMIBIA EXAMINATIONS

Part A: **[50 Marks]**

ANSWER ANY TWO (2) QUESTIONS

Question 1 [25Marks]

You are appointed as the project manager to successfully propose and construct a new Pb-Zn mine. List 3 and briefly explain tasks that you implement in each of the following stages of the life cycle of the project

1.1Project Initiation and Definition [5 marks]
1.2Planning and Scheduling [5 marks]
1.3Execution and Technical Management [5 marks]
1.4 Monitoring and Controlling [5 marks]
1.5 Closure and Reporting [5 marks]

Question 2 [25 Marks]

A multi-disciplinary team is selected to investigate the potential of the hot spring in Ais Ais as a geothermal energy source. The project plan includes developing infrastructure and deploying the energy for the campsite in Ais Ais.

2.1 If you are the technical manager of the company, propose a composition of the team by profession to deliver the project. [5 marks]

2.2 What would be the responsibilities of the project manager during the implementation of the project. [5 marks]

2.3 As the project leader, you have been given the freedom to constitute the project team. State 5 qualities that a staff should possess tobe a member of your team project. [5 marks]

2.4 In the second month of field activities during the project, the team members threatened to down tools for reasons that are not apparent to you, but which constitute a major problem. Describe how you could apply the nine-step problem-solving process to solve the problem and avert the strike. [1 mark each = 9 marks total]

Question 3 [25 Marks]

Negotiation in project management is a communication process where the parties aim to convey a message to the other party and influence each other to achieve specific project objectives.

3.1 List 5 negotiation skills for project management. Give one advantage/ use of each skill that you have listed [15 marks]

3.2 As a project manager, list five skills that will aid you in being a good negotiator. [10 marks]

Part B: **[50 Marks]**

ANSWER ALL QUESTIONS

Question 4 [20 marks]

The steady increase in base metal prices over recent years indicates that exploration companies, such as those operating at the Haib deposit, are likely to transition into full-scale mining operations soon. You have been tasked with undertaking an Environmental Impact Assessment (EIA) for the Haib deposit as it transitions from exploration to mining.

a) Identify and discuss five relevant Namibian legislation and regulatory frameworks that would be considered during EIA [10 marks]

b) Name and discuss two Multilateral Environmental Agreements (MEAs) that could be considered during EIA. [10 marks]

Question 5 [20 marks]

You have recently been appointed as the Exploration Manager at Osino Resources and are responsible for preparing and managing the exploration budget for several project sites.

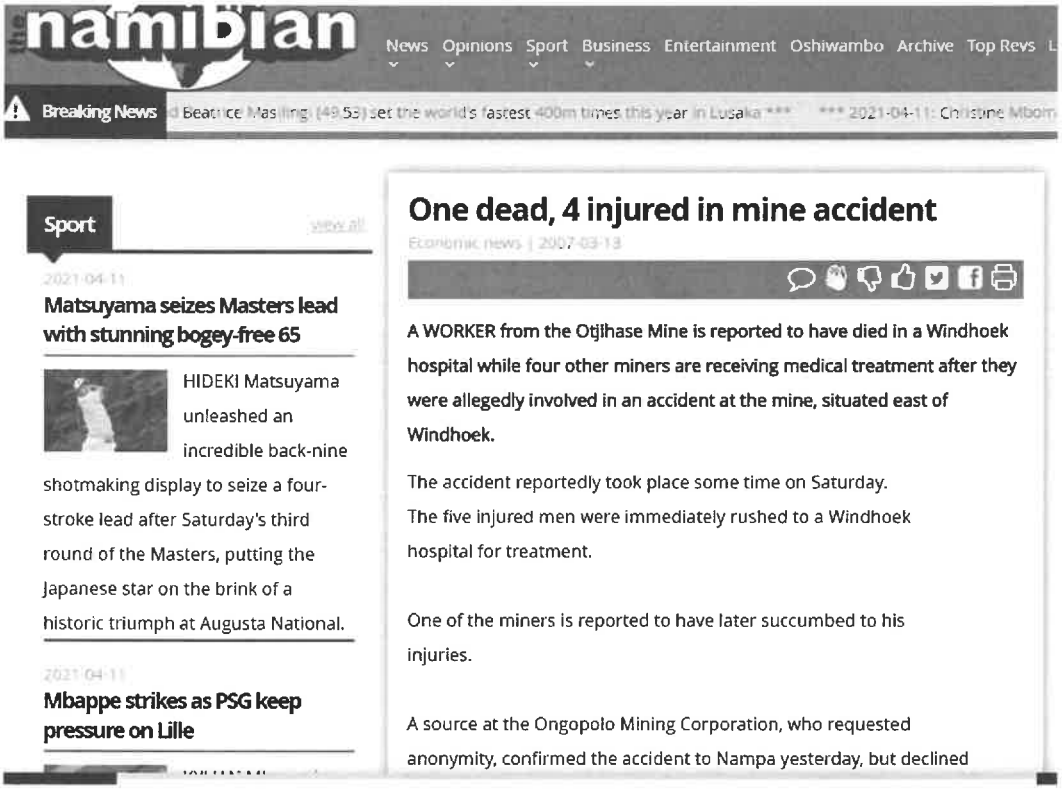
a) Discuss the key factors that should be considered when developing an exploration budget to ensure efficient project implementation, effective resource allocation, and sound cost control. [10 marks]

b) The ongoing conflict involving Iran has created uncertainty in global energy and commodity markets. Critically discuss how such geopolitical events may affect the exploration budget of a mining company such as Osino Resources. [10 marks]

Question 6 [10 marks]

6.1 Accidents can happen in the exploration and mining environment, as in the article below. What policy is usually put in place to avoid such accidents? Explain what is usually contained in such policies. [5 marks]

6.2 Differentiate between soft law and hard law. [5 marks]



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Breaking News

Sport

Matsuyama seizes Masters lead with stunning bogey-free 65

HIDEKI Matsuyama unleashed an incredible back-nine shotmaking display to seize a four-stroke lead after Saturday's third round of the Masters, putting the Japanese star on the brink of a historic triumph at Augusta National.

Mbappe strikes as PSG keep pressure on Lille

One dead, 4 injured in mine accident

A WORKER from the Otjihase Mine is reported to have died in a Windhoek hospital while four other miners are receiving medical treatment after they were allegedly involved in an accident at the mine, situated east of Windhoek.

The accident reportedly took place some time on Saturday.
The five injured men were immediately rushed to a Windhoek hospital for treatment.

One of the miners is reported to have later succumbed to his injuries.

A source at the Ongopolo Mining Corporation, who requested anonymity, confirmed the accident to Nampa yesterday, but declined

END OF EXAM