

REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF MINERAL RESOURCES  
EXAMINATION FOR THE MINE SURVEYOR'S CERTIFICATE OF  
COMPETENCY

Date: 15 October 2009  
Time: 12:30 – 14:30 (2 hours)

Total Marks 100  
To Pass 60

**MINING LEGISLATION**

**PART A – THE MINE HEALTH AND SAFETY ACT, 1996 (ACT 29 OF 1996)  
AS AMENDED**

**QUESTION 1**

Define “mine” when used as a noun, in terms of the above-mentioned Act.

[18 marks]

**QUESTION 2**

The Act prescribes that where the employment of an employee at a mine is terminated for any reason, and the employee has been subjected to medical surveillance, the employer must arrange an exit medical examination for such person.

- a) Who is required to conduct the above-mentioned exit medical examination? (1)
- b) What does the Act further require from the person conducting the exit medical examination? (5)

[6 marks]

**QUESTION 3**

As far as reasonable practicable every employer is required, in terms of the provisions of the Act, to staff a mine with due regard to health and safety.

State the requirements of the Act in this regard.

[10 marks]

**PART B – MINE HEALTH AND SAFETY ACT REGULATIONS**

**QUESTION 4**

What are the requirements of the regulations with regard to the protection of any working place against the ingress of water or any fluid material?

[6 marks]

### QUESTION 5

On a new underground mine two precious metal bearing reefs, 40 metres apart and both dipping at 65 degrees are to be mined from their reef outcrops (by opencast method) to depths in excess of 1 000 metres. As the competent person in charge of surveying, mapping and mine plans, you are responsible for the construction of accurate mine plans, using CAD equipment.

- a) What areas must be covered by these plans? (2)
- b) Name the prescribed mine plans required to be kept in terms of the regulations for the life of the mine. (10)
- c) What are the requirements of the regulations with regard to the updating of these plans? (3)
- d) To what scale must these plans be drawn? (3)
- e) What do the regulations prescribe with regard to the Departmental Copies of the mine plans? (4)

[22 marks]

### QUESTION 6

Before a mine is abandoned, closed or rendered inaccessible, the regulations prescribe that certain procedures pertaining to prescribed mine plans and books (survey records) must be followed. In this regard, describe the procedures that must be adopted by the mine in order to comply with the aforementioned regulations.

[12 marks]

### **PART C – THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT, 2002 (ACT NO 28 OF 2002) AND REGULATIONS**

### QUESTION 7

Once the Regional Manager is satisfied that all the required information regarding an application for a prospecting right has been received, the application, together with the relevant information, must be forwarded to the Minister for consideration. The Minister will only grant the prospecting right if certain requirements of the Act have been complied with.

- a) Name these requirements. (9)
- b) When does the granting of a prospecting right becomes effective? (1)
- c) If the prospecting right is granted, when must the holder thereof commence with prospecting activities? (2)

[12 marks]

**QUESTION 8**

In accordance with the requirements of the regulations regarding mine closure, the holder of a prospecting right, mining right, retention right or mining permit must ensure that the six principles for mine closure are complied with.

Briefly describe these principles.

[8 marks]

**QUESTION 9**

An application for any permission, right or permit in terms of the regulations of the above-mentioned Act must be accompanied by a plan of the land to which the application relates.

- a) Who must sign this plan? (1)
- b) What detail must be contained on this plan? (5)

[6 marks]

**TOTAL MARKS [100]**

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