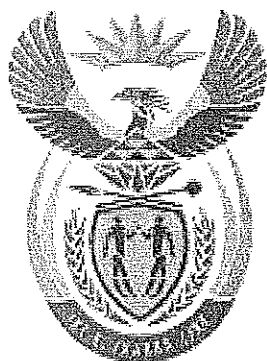


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higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

T840(E)(N21)T
NOVEMBER EXAMINATION

NATIONAL CERTIFICATE

LEGAL KNOWLEDGE – MINES AND WORKS

(13050026)

21 November 2014 (X-Paper)
09:00–12:00

CLOSED BOOK EXAMINATION

This question paper consists of 4 pages.

DEPARTMENT OF HIGHER EDUCATION AND TRAINING
REPUBLIC OF SOUTH AFRICA
NATIONAL CERTIFICATE
LEGAL KNOWLEDGE – MINES AND WORKS
TIME: 3 HOURS
MARKS: 100

INSTRUCTIONS AND INFORMATION

1. No programmable calculators are to be used.
 2. No cell phones are allowed in the examination room.
 3. Draw a line after EACH question.
 4. No pencil answers will be marked.
 5. Candidates are not allowed to leave the examination room before one hour after commencement of the examination.
 6. Candidates must be in the examination room 15 minutes before the examination starts.
 7. No text books are allowed on the desks.
 8. Candidates without acceptance by the Commission of Examiners will be disqualified.
 10. Write neatly and legibly.
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QUESTION 1

How is the effectiveness of an investigation enhanced? (10)

QUESTION 2

Under what circumstances can a person commit an offence, having been instructed or summoned to attend an inquiry? (10)

QUESTION 3

Name 10 dangerous occurrences that need to be reported? (10)

QUESTION 4

Define the follow in terms of the Mine Health and Safety Act regulations? (10)

- Explosion protected apparatus (5)
- Light metal (5)

QUESTION 5

What are the requirements where diesel is stored and fuelling is carried out? (8)

What is the minimum factor of safety of: (a) natural fibre ropes (b) man-made fibre ropes (2)

QUESTION 6

What is the definition of a boiler in terms of the Minerals Act regulations? (10)

QUESTION 7

What are the requirements for the notification of engineering appointments? (4)

What notices are required at generating stations? (6)

QUESTION 8

State the requirements for cutting, recapping and testing of winder ropes. (10)

QUESTION 9

What must be included in the measures taken by the employer to ensure that no person is injured as a result of the failure of any dam wall, plug or barricade keeping water back underground?

(10)

QUESTION 10

Give the requirements for every helicopter landing area forming part of an offshore installation.

(10)

TOTAL: 100

Question 1:

max 5

The effectiveness of an investigation can be enhanced by providing persons protection from disciplinary action. Application for such protection must be made to the Chief Inspector of mines who will provide, upon approval, every person who is protected with a certificate detailing the protection. No legal action of person who is protected be taken against a person who has this protection. A disciplinary action can may be issued. No person who is provided with this protection may refuse to answer any question, whether self-incriminating or not. ✓

Question 2:

max 8

A person summoned to attend an inquiry commits an offence if:

- (a) he fails to appear when summoned ✓
- (b) he attends, but leaves without permission ✓
- (c) he attends but refuses to answer questions without reasonable validation?
- (d) he attends but fails to produce any document or article which was requested?
- (e) he commits an offence in terms of that Magistrates Courts legal requirements ✓

Question 3: 10

Winding plant
Power failure
Breakdown of main fan
Lifts & Elevators
Self-propelled mobile machine
Boilers & pressure vessels
Caving
Flammable Gas
Fines
Explosives

Question 4:

5

max 9

Exp. means any apparatus designed for use in a hazardous area and includes flameproof apparatus intrinsically safe app. & increased safety apparatus

Light metal incl.

- a) aluminium
- b) mag
- c) fit

d) an alloy containing more than:

- (i) 15% of mag & fit by mass of the alloy
- (ii) 15% of mag and/or fit, together by mass
- (ii) 6% mag and/or fit, together or separately by mass of the alloy

Question 5: 6

max 8

At every place ... measures to prevent spillage, fires & contamination, including measures:

- (a) pipes flushed after every use ✓
- (b) diesel stored in robust, flameproof containers that do not leak ✓
- (c) no more than 3 days' estimated fuel supply stored underground ✓

5.2.(a) 10 ✓
(b) 6 ✓

Question 7: 10

PI, 3 days, manager ✓
unauthorised handling ✓
procedure event fine ✓
procedure treatment shock ✓

Question 8: 5

max 6

6 months ✓
suitable lengths ✓
sent to app rope test ✓
destructive test to determine break strength ✓
certificate ✓
b/strength + report ✓
intervals may be reduced ✓
rope changed ✓

Question 9

max 2

- 1) design approved ✓
- 2) inspected ✓
- 3) const. superv. ✓
- 4) exceed capacity ✓
- 5) wrong subst. ✓
- 6) written procedures ✓
- 7) watch to be kept ✓