MEMORANDUM
GRADE 10

QUESTION 1
1.1 D
1.2 C
1.3 D
1.4 A
1.5 C
1.6 B
1.7 C
1.8 D
1.9 B
1.10 A 10X2 (20)

QUESTION 2
2.1 Distance  = 57 mm (5.7 cm)  (1)
               = 57 x 10 000         (1)
               = 570 000
               = 0.57 km  (2)
               (Answers between 0.56 and 0.58 km are also correct)  4x1 (4)

2.2 (Conservation question)
• act as filters in the fluvial system. They filter impurities and pollution out of the river system.
• store water in sponge-like fashion.
• they prevent erosion.
• Help to prevent floods
• Will gradually release water into the river system (rivers remain permanent).
• Other relevant facts
• Conservation of fauna and/or flora.
• Preserve water supplies.
• Tourism

2.3
2.3.1 A: Donga / gully / soil erosion / sand / soil / sand erosion 1X2 (2)
2.3.2 J: Periodic 1X2 (2)
2.3.3 N–O: (i)
2.3.4 Merriespruit, Rietspruit, Erasmusspruit 3x2 (6)

2.4
2.4.1 Extensive  (1)
2.4.2 Characteristics:
• cultivated on large scale
• farms are large
• divided into camps or fields
2.4.3 No cultivation because:
- Because of river
- Flooding can damage crops
- Unsuitable soil
  - E.g. clay, gravel, infertile soil
- Flood plain

2.5
2.5.1 GRADIENT = \( \frac{\text{Vertical Difference} \; \text{V.I.}}{\text{Horizontal Distance} \; H.E.} \)  

\[ = \frac{1366 - 1345.2}{11 \text{cm}/11.1 \text{cm} \times 50 \text{ 000}} \]

or

\[ = \frac{20.8 \text{m}}{550 \text{000}} \times 100 \]

\[ = \frac{1}{264.4} \text{ cm} \div 100 \]

\[ = 1:264.4 \] (1)

2.5.2 C (very gentle)
QUESTION 3

3.1
1: Bridge / railway / railway line / railway bridge
2: Electric plant / sub-station / power station / power lines / electricity
6: Recreation area / stadium / athletics track/sports field 3x2 (6)

3.2 Recreational activities:
- Drive-in theatre
- Sailing / water sport / swimming
- Hiking
- Fishing
- Games (rugby, soccer, etc)
- Picnic (parks)
- River sport
- Camping
- Golf 3x2 (6)

3.3 Environmental question
- Level dumps / slimes dams
- Cover with topsoil
- Plant hardy grasses to restore soil
- Purify polluted water in dams and use
- Use sand for road building
- Stricter laws / fines / control
- Stricter supervision
- Make mines responsible for recovery and restoration
- Other relevant facts
- Educate / train
- Re-vegetation
- Cover area with (top) soil after depletion of mineral
  (Answer relevant to gold mines) ANY 1x2 (2)

3.4
3.4.1 Merriespruit 1x2 (2)
3.4.2 Block F8 (F7 & 8) 1x2 (2)
3.4.3 Z 1x2 (2)

3.4.4 Mass movement:
- Soil creep
- Rock slides / rock falls
- Earth flowage
- Landslides / land slumping
- Glaciers / avalanche ANY 2x2 (4)

TOTAL: [75]