# SOUTH AFRICAN COLLEGE SCHOOLS
GEOGRAPHY EXAM

Instructions

1. Answer all the questions.
2. Write neatly and legibly.
3. Show all calculations where necessary.
4. You have been given the topographic map and Orthophoto of Johannesburg.
5. All answers to be written in the spaces provided on the question paper.

QUESTION 1 MAP OF EUROPE

Refer to the map of Europe below and identify the numbered countries below:

1. _____
2. _____
3. _____
4. _____
5. _____   **[5]**

Europe
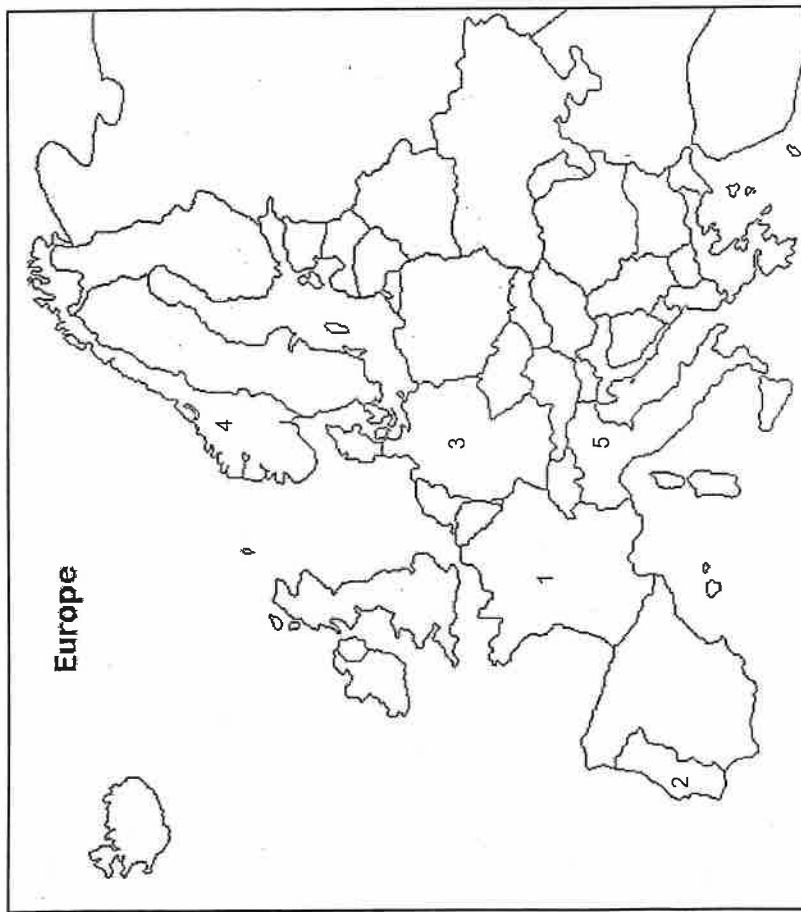
QUESTION 2

Refer to the topographic map of Johannesburg to answer the following questions:

2.1. Give the direction and bearing of △187 (A5) from spot height 1540 (C4).

Direction: _____   Bearing: _____   (4)

2.2. Give the meaning of the scale 1: 50 000.

_____   (2)

2.3. Calculate the distance from △671 (F5) to △187 (A5). Give your answer in km.

_____

_____   (3)

2.4. Calculate the length of the Modderfontein dam wall (C5). Give your answer in metres.

_____   (3)

2.5. Give the map code/map reference of the map North of the Johannesburg map.

_____

_____   (4)

2.6. Give the co-ordinates of the spot height 1540 (C4)

_____

_____   (4)

3.8. Referring to the conventional signs identify the agricultural activity that is taking place in block A4.

_____ (2)

3.9. In the suburb of Buccleuch (B3) name three services.

_____
_____
_____ (3)

3.10. Identify two recreational activities on the topographical map.

_____
_____ (2)

[27]

QUESTION 3

Refer to the orthophoto map in conjunction with the topographic map. The orthophoto can be found in block C3/4 and D3/4 on the topographical map.

3.1. Is the scale of the Orthophoto bigger or smaller than the Topographical Map?

_____ (1)

3.2. Calculate the length of the building to the left of F on the orthophoto. Give your answer in metres

_____ (3)

3.3. Identify the features / land-use at:

a) D: _____ (2)

3.4. What type of road is A?

_____ (2)

3.5. Is the settlement at E a high- or low-income residential area? Give reasons for your answer.

_____
_____
_____ (2)
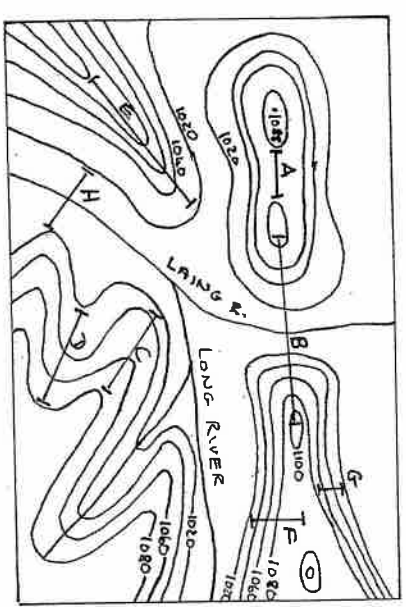
(10)

QUESTION 4

Refer to the contour map below and answer the following questions

4.1. Define a contour line.

_____
_____ (2)

4.2. What does the contour interval of the map mean?
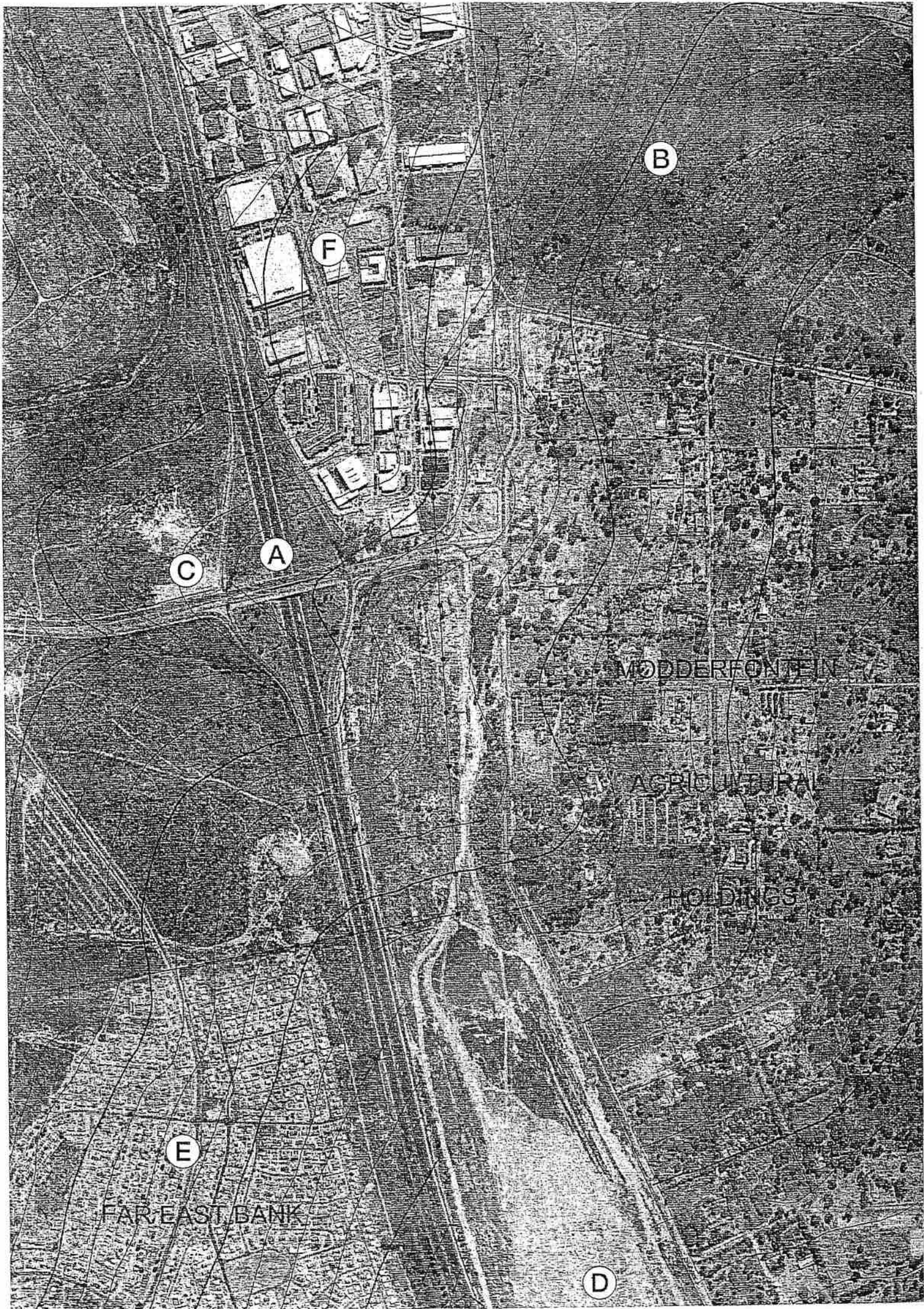
_____
_____ (1)

4.3. What is the contour interval of the map below?

_____ (1)

4.4. Label the landforms C and D as well as the slopes G and H.

(4)
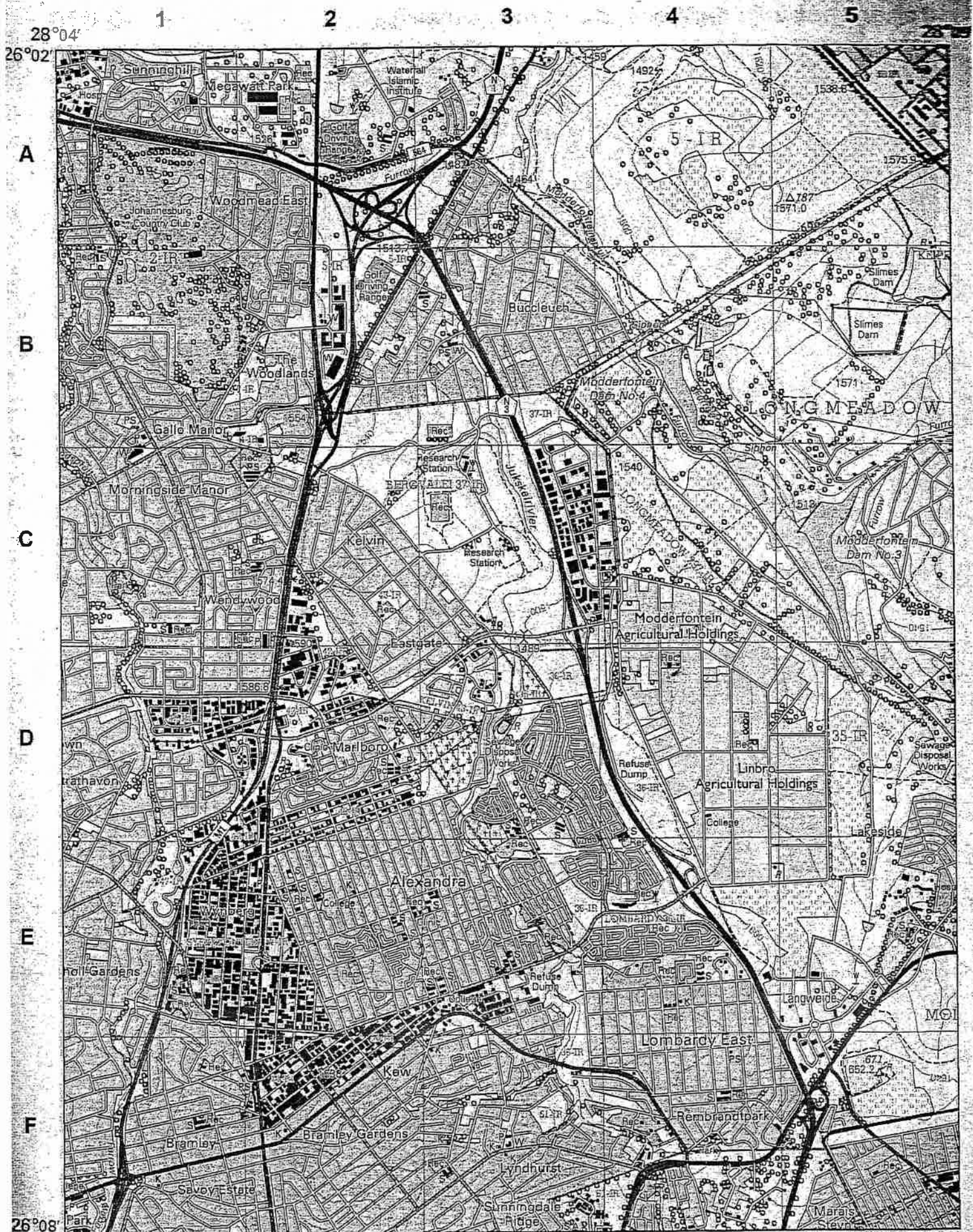

C: _____
D: _____
G: _____
H: _____

(8)

MODDERFONTEIN

AGRICULTURAL

HOLDINGS

FAR EAST BANK

28°04'
26°02'

| 1 | 2 | 3 | 4 | 5 |

A

Sunninghill
Megawatt Park
Host
Waterfall Islamic Institute
Golf Driving Range
Furrow
Woodmead East
Johannesburg Country Club
5-IR
1571.0
△787
1575.9
1492.5

B

2-IR
The Woodlands
Rec
Golf Driving Range
Buccleuch
S-IR
5-IR
Modderfontein Dam No.4
L O N G M E A D O W
Slimes Dam
Slimes Dam
1571
Siphon
PS
Gallo Manor
4-IR
Siphon

C

Morningside Manor
Research Station
BERGVLEI 37-IR
Kelvin
Research Station
Rec
37-IR
1540
1512
Modderfontein Dam No.3
L O N G M E A D O W
Wendywood
Modderfontein Agricultural Holdings
Eastgate
36-IR

D

wn
Rec
Old Marlboro
Disposal Works
Refuse Dump
36-IR
Linbro Agricultural Holdings
35-IR
College
Sewage Disposal Works
rathavon
KELVIN-IR
Lakeside

E

noll Gardens
Alexandra
College
Refuse Dump
Rec
LOMBARDY-East
Rec
Langweide
M O
Wynberg
35-IR

F

Bramley
Kew
Bramley Gardens
Lombardy East
PS
671
652.2
Rembrandtpark
Lyndhurst
Savoy Estate
Sunningdale Ridge
Marais
Park

26°08'

1000
Metres | 1 | 2 | 3 | 4 | 5 Kilometres

N. W. M. N.

65

CONTOUR INTERVAL: 20 METRES

REFERENCE

TIN

National Freeway; National Route.	International Boundary and Beacon.
Arterial Route.	Provincial Boundary.
Main Road.	Game, Nature Reserve & State Forest Boundary.
Secondary Road; Bench Mark.	Perennial River.
Other Road; Bridge.	Perennial Water.
Track and Hiking Trail.	Non-perennial River.
Railway; Station or Siding.	Non-Perennial Water.
Other Railway; Tunnel.	Dry Water Course.
Embankment; Cutting.	Dry Pan.
Power Line.	Marsh and Vlei.
Built-up Area.	Pipeline (above ground).
Buildings; Ruin.	Water Tower; Reservoir; Water Point.
Post Office; Police Station; Store.	Coastal Rocks.
Place of Worship; School; Hotel.	Prominent Rock Outcrop.
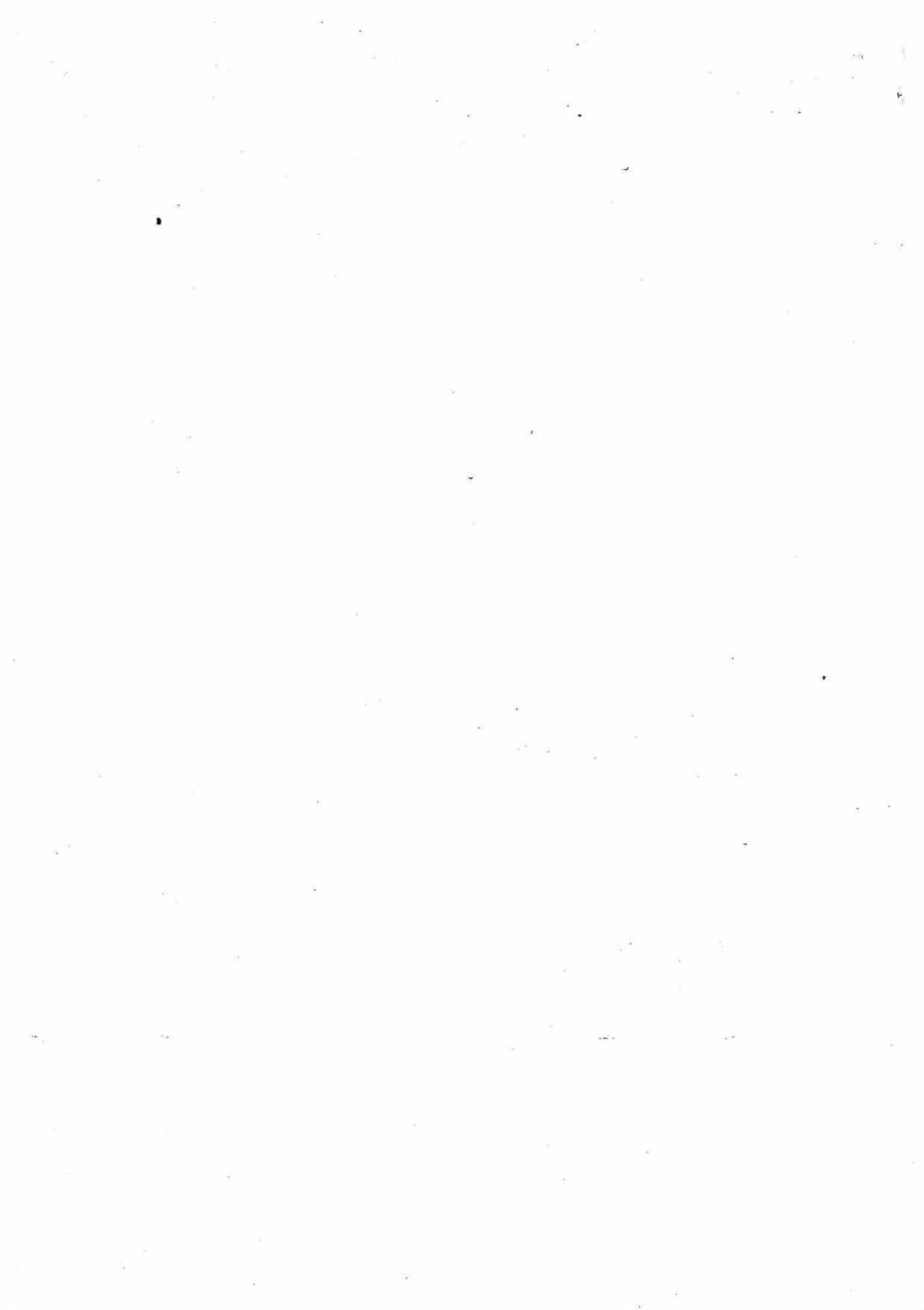
Fences; Wall.	
Windpump; Monument.	
Communication Tower.	
Mine Dump; Excavation.	
Trigonometrical Station; Marine Beacon.	
Lighthouse and Marine Light.	
Cemetery; Grave.	
Erosion; Sand.	
Woodland.	
Cultivated Land.	
Orchard or Vineyard.	
Recreation Ground.	
Row of Trees.	
Original Farms.	

Instructions

1. Answer all the questions.
2. Write neatly and legibly.
3. Show all calculations where necessary.
4. You have been given the topographic map 1:50 000 and Orthophoto of Johannesburg 1:10 000.
5. All answers to be written in the spaces provided on the question paper.

QUESTION 1 MAP OF EUROPE

Refer to the map of Europe below and identify the numbered countries below:

Europe
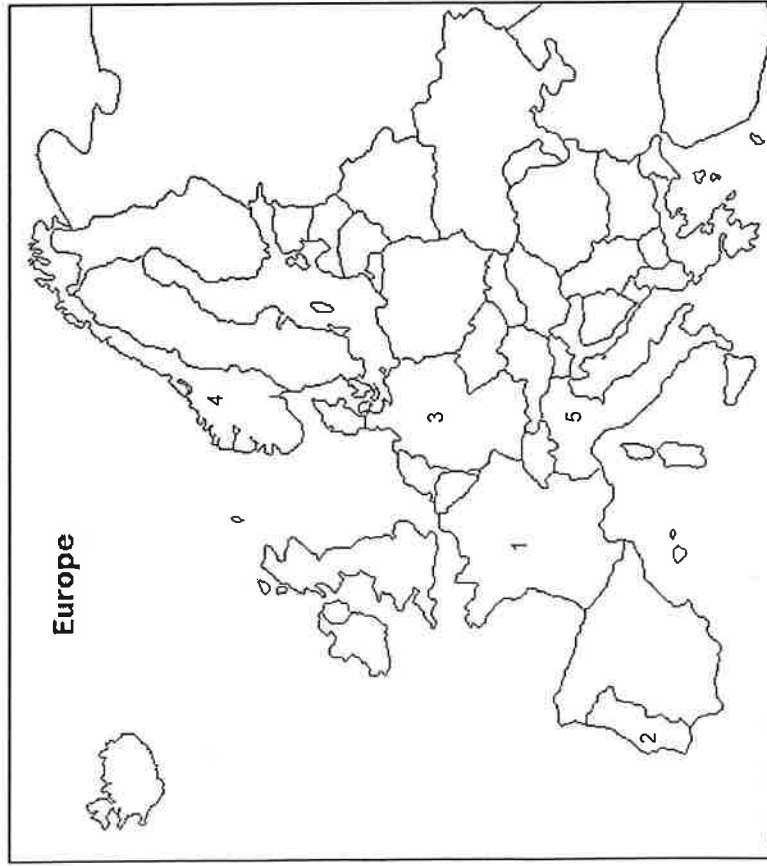
1. France ✓
2. Portugal ✓
3. Germany ✓
4. Norway ✓
5. Italy ✓

[5]

QUESTION 2

Refer to the topographic map of Johannesburg to answer the following questions:

2.1. Give the direction and bearing of △187 (A5) from spot height 1540 (C4).

Direction: **NE/NNE** ✓✓   Bearing: **34'/35'** (Accept 32' to 37') ✓✓   (4)

2.2. Give the meaning of the scale 1: 50 000.

1 unit on the map is equal to 50 000 units in reality. Accept 1cm = 50 000cm ✓✓   (2)

2.3. Calculate the distance from △671 (F5) to △187 (A5). Give your answer in km.   (3)

18,2cm x 0,5 = 9,1km (18,2cm✓ x 0,5✓ = 9,1km✓)
(Accept 18,1cm x 0,5 = 9,05km to 18,4cm x 0,5 = 9,2km)

2.4. Calculate the length of the Modderfontein dam wall (C5). Give your answer in metres.   (3)

0,8cm x 500 = 400m (0,8cm✓ x 500✓ = 400m✓)

2.5. Give the map code/map reference of the map North of the Johannesburg map.   (4)

2528CC/(25✓28✓C✓C✓)

2.6. Give the co-ordinates of the spot height 1540 (C4)   (4)

26'04'06" S (12")✓✓   or   26'04,1' S (,2')
28'07'06" S (12")✓✓   or   28'07,1' E (,2')

2.7. Referring to the conventional signs identify the agricultural activity that is taking place in block A4. (2)

Cultivated Land ✓✓

2.8. In the suburb of Buccleuch (B3) name three services. (3)

Police station✓, School✓ , Shop✓

2.9. Identify two recreational activities on the topographical map. (2)

JHB Country Club/Golf course/ Driving Range/ Hiking/ Fishing(Jukskei River) ✓✓

[27]

QUESTION 3

Refer to the orthophoto map in conjunction with the topographic map. The orthophoto can be found in block C3/4 and D3/4 on the topographical map.

3.1. Is the scale of the Orthophoto bigger or smaller than the Topographical Map? (1)

Bigger ✓

3.2. Calculate the length of the building to the left of F on the orthophoto. Give your answer in metres (3)

1.3cm x 100= 130m (1,3cm✓ x 100✓ = 130m✓)

(Accept 1.2cm x 100= 120m to 1.5cm x 100m= 150m)

3.3. Identify the features / land-use at: (2)

a) D: **Refuse Dump✓✓**

3.4. What type of road is A running in a North / South direction? (2)

N3/National Road 3 ✓✓

3.5. Is the settlement at E a high- or low-income residential area? Give reasons for your answer. (2)

Low Income.

Dense housing/Small plots of land/Outskirts of city=cheaper land

(Any relevant answer)

(10)