

Marks: 75

Time: 1 ½ hours

QUESTION 1 – MULTIPLE CHOICE

- 1.1. A ✓
- 1.2. C ✓
- 1.3. A ✓
- 1.4. B ✓
- 1.5. C ✓
- 1.6. A ✓
- 1.7. D ✓
- 1.8. C ✓
- 1.9. C ✓
- 1.10. B ✓
- 1.11. C ✓
- 1.12. A ✓
- 1.13. B ✓
- 1.14. A ✓
- 1.15. A ✓

(15x1) (15)

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QUESTION 2 – MAP CALCULATIONS

2.1. $0,6 \text{ cm} \times 0,5 = 0,3 \text{ km}$ ✓

$0,3 \times 1\,000$ ✓ = 300 m ✓ (accept answers in the range 250m-300m)

(3x1) (3)

2.2. $G = \frac{H}{D}$ ✓

$H = 1\,701 - 1\,693$
= 8 m ✓

$D = 2,7 \times 0,5$
= 1,35 × 1 000
= 1 350 m ✓

$G = \frac{8}{1\,350} \div \frac{8}{8}$

$G = 1:168,75$ ✓

(4x1) (4)

2.3. Length : $24 \times 0,5 = 12 \text{ km}$ ✓ (accept 11,95 km to 12,05 km)
Breadth: $18,5 \times 0,5 = 9,25 \text{ km}$ ✓ (accept 9,2 km to 9,3 km)
 $A = l \times b$
 $= 12 \times 9,25$ ✓
 $= 111 \text{ km}^2$ ✓ (accept 109,94 to 112,065 km^2) (4x1) (4)

2.4. $2017 - 2001 = 16 \text{ years}$ ✓
 $16 \times 8' = 128'$ change ✓
 $20^\circ 28' + 128' = 22^\circ 36'$ ✓ W of TN ✓ (4x1) (4)

2.5. $MB = TB + MD$
 $TB = 90^\circ$ ✓ (accept 1 degree leeway either side)
 $MB = 90^\circ + 22^\circ 36'$ ✓
 $= 102^\circ 36'$ ✓ (3x1) (3)

2.6. $28^\circ 16' 45'' \text{S}$ ✓ (accept 43" to 47"); $29^\circ 05' 46'' \text{E}$ ✓ (accept 44" to 48") (2x1) (2)

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QUESTION 3 – APPLICATION AND INTERPRETATION

3.1. Water for irrigation for farms ✓ ✓
Recreation (swimming, fishing, skiing) ✓ ✓
For domestic use by the families living on the farms ✓ ✓ (any two)
(Dams are not big enough for large-scale domestic use or hydro-electric power) (2x2) (4)

3.2. Non-perennial ✓ ✓
The river only flows during the wet / rainy season ✓ ✓ (2x2) (4)

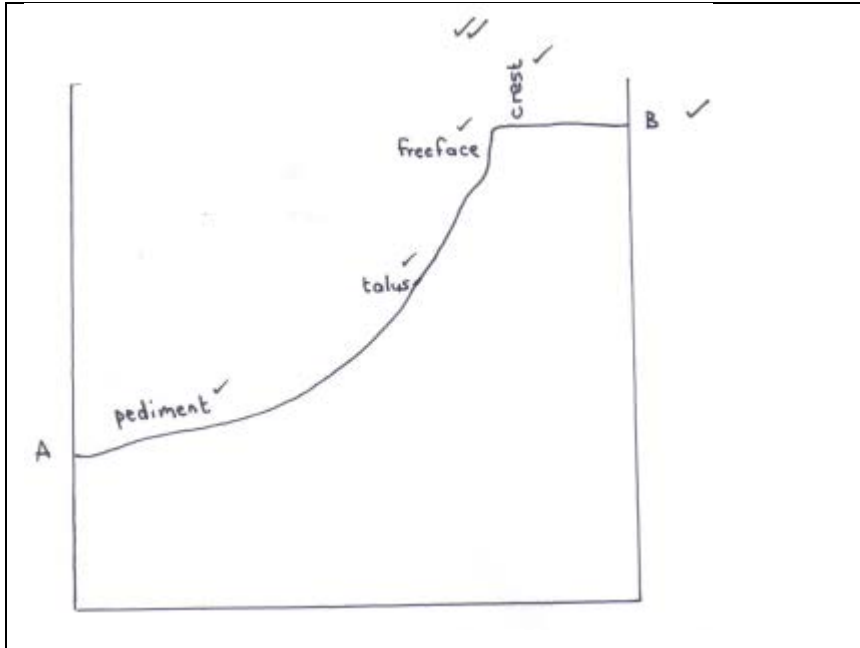
3.3. Manufacturing ✓ ✓ (1x2) (2)

3.3.2. Land, water or air pollution ✓ ✓
Chemicals in the soil and water ✓ ✓
Noise pollution ✓ ✓
Expansion of the industrial area may lead to removal of natural vegetation and soil erosion ✓ ✓ (any TWO suitable answers) (2x2) (4)

3.3.3. The train station is located in the industrial area, which is ideal for transporting manufactured goods to domestic markets. ✓ ✓
(accept any suitable explanation.) (1x2) (2)

3.4.

3.4.1. Sketch:



2 marks for correct shape of slope

1 mark for labels A and B

(1x3) (3)

3.4.2. Labels on diagram (1 mark each). (4x1) (4)

3.4.3. Rockfalls ✓ (1x1) (1)

3.5. Any suitable tertiary activity (e.g. hospitals, schools, sewage works, electricity lines) ✓ (1x1) (1)

[25]

QUESTION 4 - GIS

4.1. The GIS is a geographical information system. ✓

This system is accessible from any computer and provides all information known about any place in the world. ✓

Information can be accessed by inputting coordinates ✓

Information can be viewed in "layers" to give an accurate picture of a location ✓

(Any two correct points) (2x1) (2)

GRADE 11 GEOGRAPHY YEAR END EXAMINATION PAPER 2 MEMORANDUM



- 4.2. Satellites take photos of Earth from space ✓ ✓ (1x2) (2)
- 4.3. Spatial – describes the location of features using co-ordinates ✓ ✓
Attribute – information about or values given to an area or place ✓ ✓ (2x2) (4)
- 4.4.
- 4.4.1. Point: e.g. school, police station, spot height ✓
Line: e.g. road, river, electrical lines ✓
Polygon (area): e.g. golf course, dam ✓ (3x1) (3)
- 4.4.2. The entrepreneur could get information on:
Location of existing burger restaurants ✓ ✓
Location of middle- and high-income suburbs ✓ ✓
Existing infrastructure ✓ ✓
Main transport routes ✓ ✓
Suppliers ✓ ✓
Population numbers ✓ ✓
Travel habits ✓ ✓
(any TWO suitable answers) (2x2) (4)

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GRAND TOTAL: [75]