



Education and Sport Development

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NORTH WEST PROVINCE

PROVINCIAL ASSESSMENT

GRADE 11

GEOGRAPHY P1

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This question paper consists of 8 pages and 8-page annexure



NW/JUNE/GEO/EMIS/6*****

SECTION A: ATMOSPHERE AND GEOMORPHOLOGY

Answer all the TWO questions from this section.

QUESTION 1

1.1 Match the following statements in COLUMN B with the terms or examples in COLUMN A. Write down only question number and correct letter, e.g.1.1.9K.

COLUMN A	COLUMN B
1.1.1 Radiation	A It has a bigger temperature range experienced by places inland.
1.1.2 Maritime	
1.1.3 Horse latitudes	B It is associated with descending air
1.1.4 Low pressure	C It has a smaller temperature range experienced by places next to the sea.
1.1.5 Divergence	
1.1.6 Short wave	D Transferring of heat from one object to another by direct contact.
1.1.7 Continental	E Associated with ascending air.
1.1.8 Conduction	F Fast moving radiation emitted from sun and travelling towards the earth.
	G Moving apart
	H Subtropical latitudes located over the oceans between 30° and 35° N&S.
	I Energy travelling through space

(8 x 1) (8)

1.2 Say whether the following statements are TRUE or FALSE. In each case Write down the word TRUE or FALSE next to the corresponding number, e.g. 1.2.8 True

- 1.2.1 Settlements can be established at pediment
- 1.2.2 Dip slope is the gentle slope.
- 1.2.3 Endogenic is external forces of erosion.
- 1.2.4 Tilted is when the rock is at an angle or slanted.
- 1.2.5 Pedi plain is gently undulating or level landscape.
- 1.2.6 Cuesta is associated with horizontal strata.
- 1.2.7 Erosion is removal of valuable topsoil.

(7 x 1) (7)



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- 1.3 Study FIGURE 1.3 showing geostrophic flow and answer the questions that follow.
- 1.3.1 Explain the following terms:
- (a) Geostrophic flow (1 x 1) (1)
 - (b) Coriolis force (1 x 1) (1)
 - (c) Pressure gradient force (1 x 1) (1)
- 1.3.2 Describe the causes of Coriolis effect (2 x 2) (4)
- 1.3.3 Name one force that contribute to the formation of geostrophic flow (1 x 1) (1)
- 1.3.4 Describe the effects of Ferrel's Law on the movement of air in the Southern and Northern Hemisphere. (2 x 2) (4)
- 1.4 Study FIGURE 1.4 showing Synoptic Weather Map and answer the questions that follow.
- 1.4.1 Describe synoptic weather map. (1 x 1) (1)
- 1.4.2 What is the cloud cover and air temperature at Windhoek? (2 x 1) (2)
- 1.4.3 What is dew temperature and wind speed at Windhoek? (2 x 1) (2)
- 1.4.4 Explain the terms: Contour interval and contour lines. (2 x 1) (2)
- 1.4.5 What is the direction of wind at Windhoek? (1 x 1) (1)
- 1.4.6 Name the front at B. (1 x 2) (2)
- 1.4.7 Describe the type of rainfall associated with the front at B (1 x 2) (2)
- 1.5 Study FIGURE 1.5 showing tilted landforms and answer the questions that follow.
- 1.5.1 How are strata/layers in FIGURE 1.5 positioned in relation to the earth's surface? (1 x 2) (2)
- 1.5.2 Mention THREE landforms that are associated with tilted strata. (3 x 2) (6)
- 1.5.3 Which rock type, shale or sandstone, is likely to erode first? (1 x 2) (2)
- 1.5.4 Which area do we find these landforms in South Africa? (1 x 2) (2)
- 1.6 Study FIGURE 1.6 showing landforms and answer the questions that follow.
- 1.6.1 Describe and identify the landforms **1,3, 4 and 7**. (4 x 2) (8)
- 1.6.2 Differentiate between landform **4** and **5**. (2 x 2) (4)



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- 1.6.3 Explain the terms:
- (a) Magma (1 x 1) (1)
 - (b) Ash plumes (1 x 1) (1)
- 1.6.4 What type of rock are these landforms in FIGURE 1.6 associated with? (1 x 2) (2)
- 1.6.5 What do you think can be the effect of ash plume to humans and the environment? (2 x 2) (4)
- 1.7 Study FIGURE 1.7 tri-cellular circulation and answer the questions that follow.
- 1.7.1 Identify the cells **A**, **B** and **C** respectively. (3 x 2) (6)
- 1.7.2 Explain the following terms:
- (a) Tri-cellular circulation (1 x 1) (1)
 - (b) Polar front. (1 x 1) (1)
- 1.7.3 What does ITCZ stand for? (1 x 2) (2)
- 1.7.4 Describe TWO characteristics of cell **A** and ONE of cell **C**. (2 x 2) (4)
- 1.8 Study FIGURE 1.8 on the effects of *El Niño and La Niña* and answer the questions that follow.
- 1.8.1 Define *El Niño and La Niña*. (2 x 1) (2)
- 1.8.2 In a paragraph of not more than 8 lines describe the effects of *El Niño* to humans. (4 x 2) (8)
- 1.8.3 Is *El Niño* associated with drought or flooding? (1 x 1) (1)
- 1.8.4 In which ocean do *El Niño* events starts? (1 x 1) (1)
- 1.9 Study FIGURE 1.9 showing a typical Karoo landscape and answer the questions that follow.
- 1.9.1 Identify and describe the features labeled **A**, **B**, **C** and **D** respectively. (4 x 2) (8)
- 1.9.2 In a paragraph of not more than 8 lines describe the significance of the Karoo landscapes mentioned in QUESTION 1.9.1. (4 x 2) (8)
- 1.9.3 Which region in South Africa do we find these landscapes? (1 x 2) (2)

Total: 115

QUESTION 2

2.1 FOUR options are provided as possible answers to the questions. Choose the answer and write ONLY the letter (A-D) next to the question number (2.1.1-2.1.5) in the ANSWER BOOK, for example 2.1.6 E.

2.1.1 They are tilted over 45°

- A Cuesta
- B Homoclinal ridge
- C Mesa
- D Hogsback

2.1.2 The rock that allows water not to pass through.

- A Sand
- B Impermeable
- C Aquifers
- D Shale

2.1.3 It is rainwater that flows over a slope in a sheet.

- A Sheetflow
- B Downwasting
- C Earthflow
- D Mudflow

2.1.4 The drop of material along the Talus slope.

- A Landslide
- B Deposition
- C Slump
- D Mud flow



2.1.5 In inclined strata there are circular depressions called...

- A Cuesta domes
- B Scarp slope
- C Cuesta basins
- D Scree

(5 x 1) (5)

2.2 Choose a statement from COLUMN B that matches the term in COLUMN A. Write ONLY the letter (A-H) next to the question number (2.2.1-2.2.5) in the ANSWER BOOK, e.g 2.2.6 G.

COLUMN A	COLUMN B
2.2.1 Humidity	A Moving air
2.2.2 Isobars	B The change of temperature
2.2.3 wind	C Low pressure extending outwards to higher pressure.
2.2.4 Subsidence	D Amount of water vapour in the air
2.2.5 Trough	E Lines joining places of the same pressure
	F Sinking or downward movement of air

(5 x 1) (5)

2.3 Study FIGURE 2.3 showing slope forms and answer the questions that follow.

- 2.3.1 Name the slope elements/forms **A, B, C** and **D**. (4 x 2) (8)
- 2.3.2 In a paragraph of not more than 8 lines describe the significance of these slope elements to humans. (4 x 2) (8)
- 2.3.3 Describe TWO characteristics of slope element **A** (2 x 2) (4)

2.4 Study FIGURE 2.4 showing mass movement and answer the questions that follow.

- 2.4.1 Explain mass movement and give one slowest example? (2 x 1) (2)
- 2.4.2 What type of mass movement is depicted in FIGURE 2.4? (1 x 2) (2)
- 2.4.3 Describe the impact of mass movement on the environment. (3 x 2) (6)



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- 2.4.4 How can you prevent mass movement mentioned in QUESTION 2.4.2? (2 x 2) (4)
- 2.5 Study FIGURE 2.5 showing monsoon winds and answer the questions that follow.
- 2.5.1 What are monsoon winds? (1 x 1) (1)
- 2.5.2 Explain how winter monsoon wind is created. (3 x 2) (6)
- 2.5.3 Explain why summer monsoon brings rain? (1 x 2) (2)
- 2.5.4 What do you think make the person in FIGURE 2.5 to say 'Happy monsoon'? (1 x 2) (2)
- 2.5.5 Why is it called seasonal wind? (1 x 1) (1)
- 2.6 Study FIGURE 2.6 showing global pressure and wind belts and answer the questions that follow.
- 2.6.1 Identify TWO planetary wind belts shown in Figure 2.6 (2 x 2) (4)
- 2.6.2 In which zone does equatorial low occur? (1 x 2) (2)
- 2.6.3 How do we name winds? (1 x 2) (2)
- 2.7 Study FIGURE 2.7 showing föhn winds and answer the questions that follow.
- 2.7.1 What is a Föhn wind? (1 x 1) (1)
- 2.7.2 What is another name for föhn wind according FIGURE 2.7? (1 x 1) (1)
- 2.7.3 Describe how this wind develops. (3 x 2) (6)
- 2.7.4 Name TWO consequences of this wind. (2 x 2) (4)
- 2.8 Study FIGURE 2.8 showing landforms and answer the questions that follow.
- 2.8.1 Identify the landform in FIGURE 2.8. (1 x 2) (2)
- 2.8.2 Explain the terms:
(a) Weathering (1 x 1) (1)
(b) Deposition (1 x 1) (1)
- 2.8.3 Describe and explain the formation of this landform. (2 x 2) (4)
- 2.9 Study FIGURE 2.9 showing slope processes and answer the questions that follow.
- 2.9.1 What process is depicted in FIGURE 2.9? (1 x 2) (2)
- 2.9.2 Explain the process you mentioned in QUESTION 2.9.1 (1 x 2) (2)



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- 2.9.3 Who formulated this process you mentioned in QUESTION 2.9.1 in South Africa. (1 x 2) (2)
- 2.9.4 What are other TWO names for the process mentioned in QUESTION 2.9.1? (2 x 1) (2)
- 2.10 Explain the following terms:
- (a) Drought (1 x 1) (1)
- (b) Desertification (1 x 1) (1)
- 2.10.2 In a paragraph of not more than 8 lines describe the environmental and socio-economic effects of desertification. (4 x 2) (8)
- 2.10.3 Name FOUR human causes of desertification. (4 x 2) (8)

Total: 110**GRAND TOTAL: 225**