Downloaded from Stanmorephysics.com



KWAZULU-NATAL PROVINCE

EDUCATION
REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

JUNE EXAMINATION
2025

Stanmorepnysics.com

MARKS: 150

TIME: 3 hours

N.B. This question paper consists of 17 pages.

INSTRUCTIONS

1. The paper consists of TWO sections.

SECTION A

QUESTION 1: CLIMATE AND WEATHER AND GEOMORPHOLOGY

QUESTION 2: RURAL AND URBAN SETTLEMENT

SECTION B

QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES

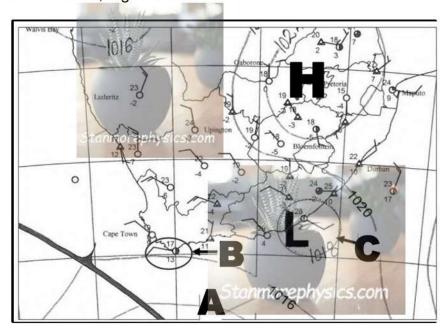
Answer ALL questions.

Stanmorephysics.com

SECTION A: CLIMATE AND WEATHER AND GEOMORPHOLOGY RURAL AND URBAN SETTLEMENT

QUESTION 1: CLIMATE AND WEATHER

1.1 The questions below refer to the synoptic weather map. Various options are provided as possible answers to the questions. Choose the answer and write only the letter (A–D) next to the question numbers (1.1.1 to 1.1.7) in the ANSWER BOOK, e.g. 1.1.8 D.



[Adapted from www.weathersa.co.za]

1.1.1 The isobaric reading at line A is ... hPa.

- A 1016
- B 1018
- C 1014
- D 1012

1.1.2 The air temperature at weather station **B** is ... °C.

- A 17
- B 13
- C -17
- D -13

1.1.3	Which pressure cell is influencing the weather over Bloemfontein, a	IS
In	indicated by the isobars?	

A Coastal low-pressure cell

B Kalahari High-pressure cell

C Cut-off low-pressure cell

D Thermal low pressure cell

- 1.1.4 The impact of the cold front in Cape Town for the next 24 hours would be...
 - A stable conditions with high temperatures
 - B rainfall and windy conditions as the cold front passes over
 - C warm and sunny weather caused by the warm front
 - D dry weather with clear skies
- 1.1.5 The low-pressure cell at C is known as a ...low
 - A thermal
 - B continental more physics.com
 - C coastal
 - D cut-off
- 1.1.6 Which of the following conditions is associated with the low-pressure cell labelled **C**?
 - A hot, dry winds moving onshore
 - B moist air moving from the ocean, bringing possible rainfall
 - C stable atmospheric conditions with minimal cloud cover
 - D warm, descending air preventing cloud formation
- 1.1.7 The cloud cover at the weather station labelled **B** is...
 - A $\frac{4}{8}$
 - B $\frac{1}{8}$
 - $C = \frac{2}{8}$
 - D $\frac{6}{8}$

(7x 1) (7)

Innnī

1.2 The questions below refer to drainage systems in South Africa. Complete the statements in COLUMN A with the options in COLUMN B. Write only Y or Z next to the question numbers (1.2.1 to 1.2.8) in the ANSWER BOOK, e.g. 1.2.9 Y.

000	Column A		Column B
1.2.1	The high ground around a drainage basin that separates one drainage basin from another is called the	Y Z	interfluve watershed
1.2.2	The is the point where two rivers join.	Y Z	confluence tributaries
1.2.3	Label X in the diagram below refers to the of the river. x [Source: Examiner's own sketch]	Y	mouth source
1.2.4	Water flowing over the land due to heavy rainfall is known as	Y Z	base flow surface runoff
1.2.5	Water found beneath the Earth's surface is known as	Y Z	ground water channel flow
1.2.6	The is the upper level of the saturated rock beneath Earth's surface.	Y Z	ground water water table
1.2.7	Theriver forms when silt is deposited on the river bed building up islands of alluvium.	Y Z	braided ungraded
1.2.8	Theflow is generally associated with a smooth concave riverbed where water moves slowly in layers.	Y	laminar turbulent

(8 x 1) (8)

1.3 Refer to the figure below which shows a valley climate.



[Source: Examiner's own image]

.3.1 Define the concept temperature inversion.

 $(1 \times 2)(2)$

1.3.2 Is the wind at **X** an anabatic or a katabatic wind?

 $(1 \times 1)(1)$

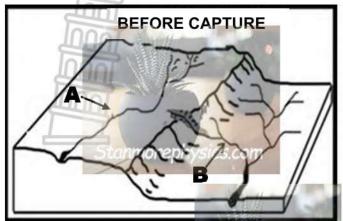
- 1.3.3 Explain TWO conditions that contribute to the formation of temperature inversion in a valley during winter night.
- $(2 \times 2) (4)$
- 1.3.4 Suggest how temperature influences the formation of frost pockets on the valley floor in winter.

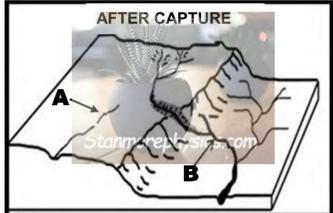
 $(1 \times 2)(2)$

1.3.5 Evaluate the negative economic impact of frost pockets on farmers on the valley floor in winter?

 $(3 \times 2)(6)$

1.4 Refer to the sketches below showing river capture.





[Source: Adapted from NSC November 2022 Exams]

1.4.1 Define the concept river capture.

- $(1 \times 2)(2)$
- 1.4.2 Which river (A or B) would be considered as the captor stream.
- $(1 \times 1)(1)$
- 1.4.3 Explain how the process of river capture causes the watershed to change its position.
- $(2 \times 2)(4)$
- 1.4.4 In a paragraph of approximately EIGHT lines, discuss the impact of river capture on the farming community along river **A** after capture.
- $(4 \times 2)(8)$

1.5 The extract below is on river management.

For years, the residents of Heron Street in Kharwastan have had to endure the gutwrenching stench of the Umhlatuzana River, which has accumulated pollution and chemical waste- allegedly from factories surrounding the stream.

Mahommed Reshard Ismail, a resident of the area for the past 38 years, claims that the waste from factories and informal settlements have been polluting the Umhlatuzana River, creating a chronic health hazard.

[Source: https://risingsunnewspapers.co.za/184413/chemical-and-feculent-waste-flow-into-umhlatuzana-river/]

1.5.1 What is river management?

- $(1 \times 2)(2)$
- 1.5.2 Identify the type of pollution affecting the Umhlatuzana River in the extract.

 $(1 \times 1)(1)$

1.5.3 Discuss how the pollution mentioned in QUESTION 1.5.2 might impact both the environment and the health of the local community?

 $(3 \times 2)(6)$

1.5.4 Suggest THREE measures that can be put in place by the local municipality of Umhlatuzana River to manage the river system at risk.

 $(3 \times 2)(6)$

[60]

QUESTION 2: RURAL AND URBAN SETTLEMENTS

- 2.1 Various options are provided as possible answers to the following questions. Choose the answer and write only the letter (A D) next to the question numbers (2.1.1 to 2.1.8) in the ANSWER BOOK, e.g. 2.1.9 B
 - 2.1.1 The location of the settlement in relation to the surrounding features is known as...
 - A site.
 - B proximity.
 - C location.
 - D situation.
 - 2.1.2 Which of the following is NOT a site factor for a rural settlement?
 - A dense population.
 - B water supply.
 - C flat land.
 - D fertile soil.

Refer to the figure below on the shape of the settlement to answer QUESTIONS 2.1.3 and 2.1.4

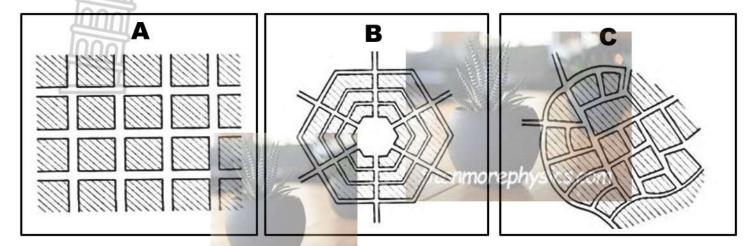


- 2.1.3 The shape of this settlement is ...
 - A linear.
 - B isolated.
 - C circular.
 - D dispersed.

2.1.4	This s	settlement is influenced by access to the		
	A	roads.		
Tur	B	lake.		
	C	pasture.		
Inni	D	firewood.		
2.1.5	The m	nain factor used to classify settlements is the		
	Α	function.		
	В	pattern.		
	С	shape.		
	D	site.		
2.1.6	The la	argest rural settlement is called		
	Α	hamlet.		
	В	town.		
	С	village.		
	D	farmstead.		
2.1.7	2.1.7 The movement of people from rural to urban areas is called			
	Α	counter-urbanisation.		
	В	nucleated settlement.		
	С	rural-urban migration.		
	D	rural depopulation.		
2.1.8	The s	ocial advantages of the nucleated rural settlements are		
	(i)	initiate own ideas.		
	(ii)	safety.		
	(iii)	easy to share ideas.		
	(iv)	owning small parcels of land.		
	Α	(i) and (ii)		
	В	(ii) and (iii)		
	С	(ii) and (iv)		
	D	(iii) and (iv)		

 $(8 \times 1)(8)$

2.2 The figure below shows street patterns. Match the descriptions with street patterns A, B or C. choose the answer and write only the letter **A**, **B** or **C** next to the question numbers (2.2.1 to 2.2.7) in the ANSWER BOOK, e.g. 2.2.8 C. You may choose the same letter more than once.



[Source adapted from https://www.graemecollege.co.za/media/1200/gr-12-settlementgeography-part-6-summaries-urban-settlements.pdf]

- 2.2.1 Associated with the new urban developments.
- 2.2.2 Many intersections result to traffic congestion.
- 2.2.3 It suits the uneven topography.
- 2.2.4 All roads converge on a central point.
- 2.2.5 It results to the free-flow of traffic.
- 2.2.6 It is found in the oldest part of urban areas.
- 2.2.7 Associated with ancient cities with ring roads as a feature.

 $(7 \times 1)(7)$

2.3 Refer to the sources below on land reform.

'Elite capture': how land reform favours the rich and powerful By Staff Reporter 20 April 2020 | 1:26 pm Land reform should aim to address poverty and create livelihood opportunities for those at the lower end of the historically disadvantaged spectrum. This isn't happening, according to the Institute for Poverty, Land and Agrarian Studies. Instead, land allocation and access to resources are skewed in favour of well-off beneficiaries.

President Cyril Ramaphosa assents to (approve) Expropriation Bill

23 Jan 2025

President Cyril Ramaphosa has signed into law the Expropriation Bill which repeals the pre-democratic Expropriation Act of 1975 and sets out how organs of State may expropriate land in the public interest for varied reasons.

Section 25 of the Constitution recognises expropriation as an essential mechanism for the state to acquire someone's property for a public purpose or in the public interest, subject to just and equitable compensation being paid.

The Bill repeals the Expropriation Act and provide a common framework in line with the Constitution to guide the processes and procedures for expropriation of property by organs of state.

This law will assist all organs of State - local, provincial and national authorities - to expropriate land in the public interest for varied reasons.

Media enquiries: Vincent Magwenya Spokesperson to the President

Source: Adapted from https://www.gov.za/news/mediastatements/president-cyril-ramaphosa-assents-expropriation-bill-23-jan-2025

tanmorephysics.com

2.3.1 What is *land reform*? (1 x 2) (2)

2.3.2 According to the extract, what was wrong with the previous land reform act? (1 x 1) (1)

- 2.3.3 Refer to the extract above and explain how was the old expropriation bill repealed (changed)? (1 x 2) (2)
- 2.3.4 Why the new expropriation bill faced opposition from the previously advantaged land-owners? (2 x 2) (4)
- 2.3.5 Discuss factors that caused the previous process of land reform to advance too slowly? (3 x 2) (6)

2.4 Refer to the photographs below showing urban decay in Johannesburg.



[Source Adapted from https://www.iol.co.za/saturday-star/news/look-from-joburg-with-love-acclaimed-dentist-captures-the-essence-of-the-beloved-city-of-gold-64af470d-4d1f-4866-aa4c-b1d5862c5af9]

2.4.1	Define the concept urban decay.	$(1 \times 2)(2)$
2.4.2	Mention evidence from the photographs indicating that urbal decay has taken place.	n (1 x 1)(1)
2.4.3	Refer to the photographs above and identify possible causes of urban decay.	s (2 x 2) (4)
2.4.4	Suggest measures that could be implemented by Johannesburg Municipality to renew the city.	(2 x 2) (4)
2.4.5	Explain how urban renewal will negatively affect people living in the City of Johannesburg.	(2 x 2) (4)

2.5 Refer to the newspaper article on informal settlements below and answer the questions that follow.

It will take eThekwini over 90 years to fix informal settlements, says metro

9 May 2023 | By Nombulelo Damba-HendrikNews | Durban





It will take the eThekwini Municipality almost a century to deal with the backlog of problems at informal settlements across the metro, given the current fiscal allocations. This is according to the head of communications at the municipality, Lindiwe Khuzwayo.

Families at Foreman Road informal settlement in Durban have been asking the City to electrify their shacks and improve sanitation.

Some shacks are built on wetlands, so the ground is always damp. Residents say they protested in 2018 to demand electricity, among other services. They said the municipality sent a contractor to install electricity, but only a few shacks received formal electricity. Most shacks at Foreman Road still rely on illegal connections.

Source: Adapted from: https://www.dailymaverick.co.za/article/2023-05-09-90-years-thats-how-long-it-will-take-ethekwini-to-fix-informal-settlements-says-metro/

- 2.5.1 What is an informal settlement? (1 x 2) (2)
- 2.5.2 Quote evidence from the article which suggest that some informal settlement are built on sensitive land. (1 x 1) (1)
- 2.5.3 Mention at least TWO services that the above community are complaining about. (2 x 1) (2)
- 2.5.4 How does the building material of informal settlements above increase vulnerability (more risk) to fires? (1 x 2) (2)
- 2.5.5 In a paragraph of approximately EIGHT lines, suggest measures that can be implemented by local municipality to reduce the challenges associated with the growth of informal settlements. (4 x 2) (8)

TOTAL SECTION A: 120

[60]

SECTION B

QUESTION 3: GEOGRAPHICAL SKILLS AND TECHNIQUES

GENERAL INFORMATION ON LADYSMITH Ladysmith Stanmorephysics.com Strength Sics com

Coordinates: 28°33'S; 29°46'E

Ladysmith is a city in the Uthukela District of Kwa Zulu-Natal. It is situated along the Klip River. The climate is warm and temperate with the highest rainfall recorded in summer. The average annual temperature is 17,3 °C. The average annual precipitation is approximately 1 057mm. This climate provides ideal conditions for agricultural raw materials.

[Source Adapted from: https://en.wikipedia.org/wiki/LADYSMITH]

The following English terms and their Afrikaans translations are shown on the topographical map:

<u>ENGLISH</u>	<u>AFRIKAANS</u>
Furrow	Voor
Aerodrome	Vleigveld
Klip River	Kliprivier
Sewage works	Rioolwerke
Weir	Studam

1) (1)

3.1	MAP	SKILL	S AND	CAL	CUL	ATIONS
-----	-----	-------	-------	-----	-----	---------------

3.1.1	In which province is Ladysmith?	(1 x
The same of the sa	m. minor promise to Lady contain	٧.

3.1.2 What is the map code south-east of 2829DB?

2829BC	2829BD	2830AC
2829DA	Ladysmith 2829DB	2830CA
2829DC	2829DD	2830CC

- A 2829DC
- B 2829DD
- C 2830CCtanmorephysics.com
- D 2830CA

 $(1 \times 1)(1)$

- 3.1.3 The coordinates of the weir at I in block A3 is...
 - A 28°31'24"S; 29°47'25"E
 - B 29°47'25"E; 28°31'24"S
 - C 28°31'24"E; 29°47'25"S
 - D 29°47'25"S; 28°31'24"E

 $(1 \times 1)(1)$

- 3.1.4 Determine the true bearing from trigonometrical station 324 (block **E2**) to trigonometrical station 313 (block **C1**). (1 x 1) (1)
- 3.1.5 Use the topographical map and the information below to calculate the magnetic declination for the year 2025. (5 x 1) (5)

Difference in years:

Mean annual change:

Total change:

Magnetic declination:

3.1.6 What is the purpose of calculating the magnetic declination? $(1 \times 1)(1)$

3.2 MAP INTERPRETATION

3.2.1 The contour interval of the orthophoto map is...

A 5 meters

B 0.5 meters

C 20 meters

D 0.2 meters (1 x 1) (1)

3.2.2 The land use zone for the excavation at **J** on the topographical map is...

A residential zone

B rural-urban fringe

C transitional zone

D commercial zone (1 x 1) (1)

3.2.3 Account for the row of trees in area labelled 12. (1 x 2) (2)

Refer to the section of the Klip River 10 and 11 on the orthophoto map.

- 3.2.4 Which bank (10 or 11) is more likely to be eroded in times of flood? (1 x 1) (1)
- 3.2.5 Why is this part of the river bank (answer to QUESTION 3.2.4 above) not cultivated? (1 x 2) (2)

Refer to the street pattern in block **E 4/5** on the orthophoto map.

3.2.6 Identify the street pattern in block **E 4/5** on the orthophoto map. $(1 \times 1)(1)$

3.2.7 Explain TWO advantages of this street pattern. (2 x 2) (4)

3.3 Geographic Information Systems

- 3.3.1 Is the orthophoto map an example of (vector / raster) data? (1 x 1) (1)
- 3.3.2 Provide a reason to support your answer to QUESTION 3.3.1 above. (1 x 2) (2)

The industrial building in block **B4** of the topographical map is shown by the images below captured by a remote sensing device.



(Source: www.earth.google.com/web/search/Lady+smith/)

- 3.3.3 Define the concept remote sensing? $(1 \times 2)(2)$
- 3.3.4 Name ONE factor in the remote sensing process that will affect the resolution of an image. (1 x 1) (1)
- 3.3.5 Why does image **A** have a higher resolution than image **B**? $(1 \times 2)(2)$

TOTAL SECTION B: 30

GRAND TOTAL: 150

Downloaded from Stanmore Sics.com



KWAZULU-NATAL PROVINCE

EDUCATION REPUBLIC OF SOUTH AFRICA

NATIONAL SENIOR CERTIFICATE

GRADE 12

tanmorephysics.com

GEOGRAPHY

JUNE 2025 EXAMINATION

MARKING GUIDELINES

Stanmorephysics.com

MARKS: 146

N.B. This marking guideline consists of 8 pages.

QUESTION 1: CLIMATE AND WEATHER

- 1.1.1 D (1012)
- 1.1.2 A (17)
- 1.1.3 B (Kalahari High Pressure cell)
- 1.1.4 B (Rainfall and windy conditions as the cold front passes over)
- 1.1.5 C (Coastal)
- 1.1.6 B (Moist air moving from the ocean, bringing possible rainfall)

tanmorephysics.com

1.1.7 A $(\frac{4}{9})$ (7 x 1) (7)

- 1.2.1 Z (Water shed)
- 1.2.2 Y (Confluence)
- 1.2.3 Y (Mouth)
- 1.2.4 Z (Surface runoff)
- 1.2.5 Y (Ground water)
- 1.2.6 Z (Water table)
- 1.2.7 Y (Braided)

1.2.8 Y (Laminar) (8 x 1) (8)

1.3.1 Is an increase in the temperature as the height increases in a valley.[CONCEPT] (1 x 2) (2)

- 1.3.2 Katabatic wind (1 x 1) (1)
- 1.3.3 Clear, calm nights that allows heat to escape through terrestrial radiation.Cold subsiding air displacing warm air from the valley floor. (2 x 2) (4)
- 1.3.4 Temperature drops below freezing point (0°C) forming frost. (1 x 2) (2)
- 1.3.5 Crop damages / Shortage of food for livestock/Agricultural productivity would be reduced (Accept examples). Delayed planting / harvesting Soil and infrastructure damage [ACCEPT EXAMPLES] Reduced crop quality / reduced market value Loss of income / profit for farmers.

Increased costs for frost prevention methods.

Increase insurance cost

Reduced land value [ANY THREE] (3 x 2) (6)

June 2025 Examination

1.4.1 When a more energetic river captures (steals) the headwaters of a less energetic

River [CONCEPT] (1 x 2) (2)

1.4.2 River B (1 x 1) (1)

1.4.3 Headward erosion (1) results in the lowering of the watershed through abstraction

Headward movement of the river (1) results in backward movement of the watershed / retreat backwards.

 $(2 \times 2)(4)$

NB. PART MARKING: ONE MARK FOR A FACTOR TWO FULL MARKS FOR A FACTOR AND A QUALIFIER

1.4.4 Loss of water for irrigation/domestic purposes

Loss/ damage of aquatic life

Poor crop harvesting

Loss of income

Poor soil quality

tenmorephysics.com

Horticulture negatively affected

Loss of livestock.

Decrease production

Loss of jobs

Loss of hydro-electric power

Results in rural-urban migration/rural depopulation

 $[ANY FOUR] \tag{4 x 2) (8)}$

1.5.1 River management refers to the processes and strategies used to maintain, protect, and improve the health of rivers. [CONCEPT] (1 x 2) (2)

1.5.2 Water pollution (accept examples from the extract) (1 x 1) (1)

1.5.3 Environment:

The (chemical) waste in the river can harm aquatic life (plants and animals)

by contaminating the water

It can also lead to the destruction of aquatic habitats

Loss of biodiversity.

Reduced oxygen levels in the water result in eutrophication (growth of algae)

Disrupting of the food chain (ecosystem).

Soil degradation / soil infertility

Health of the local community:

Diseases from chemical waste [ACCEPT EXAMPLES]

Skin diseases [ACCEPT EXAMPLES].

JANY THREE - AT LEAST ONE ON BOTH THE ENVIRONMENT AND

HEALTH OF THE LOCAL COMMUNITY] (3×2) (6)

1.5.4 The local municipality must pass by-laws (legislation) to control industrial waste disposal

Impose fines to control industrial waste disposal

Treatment of wastewater before it is released into the river.

Educate local communities on the importance of

keeping rivers clean, how to reduce pollution

Encourage active participation in clean-up efforts.

Develop proper waste disposal systems for informal settlements and

businesses, ensuring that waste does not enter the river.

Buffering along the river.

Frequent testing of water quality.

[ANY THREE]

 $(3 \times 2) (6)$

[60]

QUESTION 2: RURAL AND URBAN SETTLEMENTS

2.1.1 D (Situation)

tanmorephysics.com

- 2.1.2 A (Dense population)
- 2.1.3 C (Circular)
- 2.1.4 B (Lake)
- 2.1.5 A (Function)
- 2.1.6 C (Village)
- 2.1.7 C (Rural-urban migration)
- 2.1.8 B (ii) and (iii)

 $(8 \times 1)(8)$

- 2.2.1 C
- 2.2.2 A
- 2.2.3 C
- 2.2.4 B
- 2.2.5 C
- 2.2.6 A
- 2.2.7 B (7 x 1) (7)

Copyright Reserved

2.3.1 Policy to bring about equitable distribution and access to land for previously disadvantaged South Africans. [CONCEPT] $(1 \times 2)(2)$ 2.3.2 The previous land reform Act did not address poverty. It did not create livelihood opportunities for those at the lower end of the historically disadvantaged spectrum Land allocation and access to resources were skewed in favour of the well- off beneficiaries [ANY ONE] $(1 \times 1)(1)$ 2.3.3 To provide a common framework in the line with the Constitution to guide the processes and procedures for expropriation of property by all organs of state. The law was repealed (changed) to allow three (all) organs of state (local, provincial and national authorities), to expropriate land in the public interest for valid reasons $(1 \times 2)(2)$ ANY ONE 2.3.4 QUESTION REMOVED (TECHNICAL ERROR) 2.3.5 Lack of knowledge regarding the land reform process People are too poor to attend meetings Lack of appropriate documentation Willing buyer/ willing seller clause Legal processes are costly Constrained budget by government [ANY THREE] $(3 \times 2)(6)$ 2.4 2.4.1 When some buildings in the city becomes run-down/dilapidated and are not fixed/maintained. [CONCEPT] (1×2) (2) 2.4.2 Buildings are in poor conditions/ dilapidated buildings Litter/pollution Graffiti on the buildings Roads in poor condition (ACCEPT EXAMPLES) (ANY ONE) $(1 \times 1)(1)$ 2.4.3 Landlords do not maintain buildings Zone of expansion for CBD Intention to change original function of buildings Illegal occupation of buildings Sub-letting Poor service delivery Overcrowding of properties [ANY TWO] $(2 \times 2)(4)$ 2.4.4 Building of low-cost housing Demolish and rebuild the old buildings/Infrastructure development (accept examples) Renovations of the dilapidated buildings (accept examples) Relocate people to other areas (ANY TWO) $(2 \times 2)(4)$

2.4.5 Displacement of local residence due to rising property values

Threat to local businesses due to high rentals

Loss of community identity or cultural heritage due to replacement of

historic buildings/ landmarks

Marginalisation of vulnerable groups due to high property values

Promote economic inequality by benefitting the property developers only

Increased service delivery costs due renewal

 $(2 \times 2)(4)$

NB. PART MARKING: ONE MARK FOR A FACTOR TWO FULL MARKS FOR A FACTOR AND A QUALIFIER

2.5.

2.5.1 Illegally built settlements due to tack of proper housing.
[CONCEPT]

 $(1 \times 2)(2)$

2.5.2 Some shacks (informal settlements) are built on Wetlands

 $(1 \times 1)(1)$

2.5.3 Provision of electricity.

Provision of sanitation.

Provision of better housing.

(ANY TWO)

 $(2 \times 1)(2)$

2.5.4 They use poor quality (makeshift/recyclable) material that is flammable.

[ACCEPT EXAMPLES]

 $(1 \times 1)(1)$

2.5.5 Provide access to basic services (accept examples)

Legal ownership of the land

Provide building material

Employment opportunities/formal sector jobs

Provision of proper houses (low cost houses)

Emergency facilities provided (accept examples)

Monitoring and policing to improve safety and security

Proper planning /Rezoning

Improve infrastructure (accept examples)

Educational programmes (accept examples)

[ANY FOUR]

 $(4 \times 2)(8)$

[56]

TOTAL SECTION A: 116

2 4	MAP SKIL	I C AND	THO IAC	ATIONS
3.1	MAP SKIL	LO AND U	JALUUL	AHUNS

3.1.1 Kwa Zulu – Natal $(1 \times 1)(1)$

3.1.2 C (2830CC) $(1 \times 1)(1)$

3.1.3 A (28°31'24" S, 29°47'25" E) $(1 \times 1)(1)$

 $3.1.4 \quad 145^{\circ} + 180^{\circ} = 325^{\circ} \sqrt{\text{(Range: } 144^{\circ} + 180^{\circ} - 146^{\circ} + 180^{\circ})}$

 $= 324^{\circ} - 326^{\circ}$ $(1 \times 1)(1)$

3.1.5 Difference in years: $2025 - 2001 = 24\sqrt{}$

Mean annual change: 08' √ West

Total Change: 24 x 8' = 192' West of True North √ Magnetic declination for 2025: 21° 03' +√ 192'

> = 24° 15' West of True North $(5 \times 1)(5)$

3.1.6 To find the true north

For accurate direction

Navigators do not get lost [ANY ONE] $(1 \times 1)(1)$

3.2 MAP INTERPRETATION

3.2.1 A (5m) $(1 \times 1)(1)$

3.2.2 B (rural-urban fringe) $(1 \times 1)(1)$

3.2.3 Prevent pollution of Klipriver

Act as a buffer zone

Reduce flooding

ANY TWO $(2 \times 1)(2)$

3.2.4 11 (outer bank/undercut slope)

 $(1 \times 1)(1)$

3.2.5 Steep slope therefore prone to erosion

The slope is deep and cannot be cultivated / difficult to access water

Soil is infertile

The bank is too close to the road

[ANY ONE] $(1 \times 2)(2)$

3.2.6 Grid-iron $(1 \times 1)(1)$

3.2.7 Minimises travelling distance from one point to another

Facilitates shopping since shops are located on either sides of the street

Easy plan/to layout

Easy to extend

Yields rectangular building plots

Easy to find your way around (navigate)

[ANY TWO] $(2 \times 2)(4)$

Geograpio W	nloaded from Stanmorephysics.com NSC Grade 12 -Marking Guidelines	June 2025 Examination
3.3 Geog 3.3.1 Rast	graphic information systems er	(1 × 1) (1)
3.3.2 Made	e up of pixels or grids	(1 x 2) (2)
	uring data from a distance without physical contact. NCEPT]	(1 x 2) (2)
Num Shao Dista Angle	ospheric conditions ber/size of pixels dow ance between the sensor and the target e at which image is captured ONE	(1 x 1) (1)
Less Imag	e/smaller pixels/grid cells in image A /larger pixels/grid cells in image B ie A is clearer than image B ONE Stanmorephysics.com	(1 x 2) (2)

TOTAL SECTION B: 30 GRAND TOTAL: 146

CONVERSION: LEARNER MARK x 150 146

Stanmorephysics.com

Copyright Reserved