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SENIOR CERTIFICATE EXAMINATIONS

GEOGRAPHY P1

2017

MARKS: 225

TIME: 3 hours

This question paper consists of 14 pages and a 11-page annexure.

INSTRUCTIONS AND INFORMATION

- 1. This question paper consists of FOUR questions.
- 2. Answer ANY THREE questions of 75 marks each.
- 3. All diagrams are included in the ANNEXURE.
- 4. Leave a line between the subsections of questions answered.
- 5. Start EACH question at the top of a NEW page.
- 6. Number the answers correctly according to the numbering system used in this question paper.
- 7. Number the answers in the centre of the line.
- 8. Do NOT write in the margins of the ANSWER BOOK.
- 9. Draw fully labelled diagrams when instructed to do so.
- 10. Answer in FULL SENTENCES, except when you have to state, name, identify or list.
- 11. Write neatly and legibly.

SECTION A: CLIMATE, WEATHER AND GEOMORPHOLOGY

Answer at least ONE question in this section. If you answer ONE question in SECTION A, you must answer TWO questions in SECTION B.

QUESTION 1

1.1 Refer to FIGURE 1.1, a synoptic weather map.

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 number (1.1.1–1.1.7) in the ANSWER BOOK, for example 1.1.8 D.

Do NOT answer these multiple-choice questions on the ANSWER SHEET provided in the ANSWER BOOK.

- 1.1.1 The cloud coverage at weather station **X** can be described as ...
 - A partly cloudy.
 - B clear skies.
 - C overcast.
 - D not visible.
- 1.1.2 The weather experienced along the moisture front is generally ...
 - A heavy rainfall.
 - B snowfall.
 - C thunderstorms.
 - D hail.
- 1.1.3 The trough line is associated with ... clouds.
 - A cumulus
 - B cumulonimbus
 - C stratus
 - D altostratus
- 1.1.4 At **E** the warm, moist air from pressure cell **A** moves in a ... direction.
 - A north-easterly
 - B north-westerly
 - C south-easterly
 - D south-westerly
- 1.1.5 The wind direction at weather station **X** is ...
 - A south-west.
 - B north-east.
 - C south-east.
 - D north-west.

- 1.1.6 The cold, dry air from pressure cell **B** is ...
 - A ridging from the Atlantic Ocean.
 - B ridging from the Indian Ocean.
 - C undercutting pressure cell **C**.
 - D undercutting pressure cell **D**.
- 1.1.7 The shape of the trough line is determined by ...
 - A differences at weather stations **X** and **Y**.
 - B the position of the South Indian High.
 - C the ridging of the South Atlantic High.
 - D uneven distribution of cold and warm air masses. (7×1) (7)
- 1.2 Choose a term from COLUMN B that matches the geomorphological description in COLUMN A. Write only the letter (A–I) next to the question number (1.2.1–1.2.8) in the ANSWER BOOK, for example 1.2.9 J.

	COLUMN A		COLUMN B
1.2.1	A smaller stream that joins a river	Α	groundwater
1.2.2	High ground separating one drainage basin from another	В	interfluve
	, and the second	С	watershed
1.2.3	Point where two or more streams join	D	impermeable
1.2.4	Gives rise to turbulent stream flow	Е	rapids
1.2.5	Rocks that hold water	F	porous
1.2.6	Water that seeps underground	G	water table
1.2.7	Rocks that do not allow water to enter them	Н	confluence
		ı	tributary
1.2.8	Upper level of underground water		

 (8×1) (8)

1.3	Refer to	FIGURE 1.3 based on a satellite image.		
	1.3.1	Identify the low-pressure weather system shown satellite image.	in the (1 x 1)	(1)
	1.3.2	Give evidence from the satellite image to support your ar QUESTION 1.3.1.	nswer to (1 x 2)	(2)
	1.3.3	Account for the direction in which this low-pressure weather moves.	system (1 x 2)	(2)
	1.3.4	Why does this low-pressure weather system have a greate on South Africa in the winter?	r impact (1 x 2)	(2)
	1.3.5	Sketch a labelled cross-section of a cold front associated low-pressure weather system.	with this (4 x 1)	(4)
	1.3.6	Explain how this low-pressure weather system has a positive on the economy of the South-western Cape.	e impact (2 x 2)	(4)
1.4	FIGURE Johanne	E 1.4 shows the average air temperature distribution esburg CBD.	in the	
	1.4.1	Give the average temperature of the buildings in the Johan CBD.	nesburg (1 x 1)	(1)
	1.4.2	Give a reason for the relatively high temperatures of building Johannesburg CBD.	s in the (1 x 2)	(2)
	1.4.3	Explain why the average air temperature between the buil slightly lower than that of the buildings.	dings is (2 x 2)	(4)
	1.4.4	Write a paragraph of approximately EIGHT lines, in who suggest ways in which the Johannesburg CBD can be redean AND how alternative types of material can be used to redamount of heat generated in the city.	veloped	(8)
1.5	Refer to	FIGURE 1.5, which shows surface run-off patterns.		
	1.5.1	Define the term surface run-off.	(1 x 1)	(1)
	1.5.2	In which landscape is the highest surface run-off recorded?	(1 x 1)	(1)
	1.5.3	State why the surface run-off in the landscape you seld QUESTION 1.5.2 is higher when compared to the oth surfaces.		(2)

- 1.5.4 Compare the run-off on the cultivated surface (50–60%) with the run-off on the forested surface (10–20%).
 - (a) How has the process of infiltration influenced the difference in recorded surface run-off? (1 x 2)

around

(2)

(4)

(1)

- (b) Describe the impact of the level of infiltration on the ground water levels for both surfaces **B** and **C**. (2×2)
- 1.5.5 Suggest how increased run-off can be managed by referring to urban and cultivated surfaces, as shown in the diagram. (2 x 2) (4)
- 1.6 Refer to FIGURE 1.6, which illustrates river capture.
 - 1.6.1 Define the term *river capture*.

 (1×1)

- 1.6.2 What evidence in sketch **A** indicates that river capture is likely to take place? (1 x 1)
- 1.6.3 Name TWO physical changes that river **A** will undergo after river capture has occurred. (2 x 1) (2)
- 1.6.4 State TWO possible conditions that have led to river **A** being the captor stream. (2 x 2) (4)
- 1.6.5 Write a paragraph of approximately EIGHT lines to describe how the reduced volume of water will negatively impact on the farming community at **B**. (4 x 2)

(8) **[75]**

QUESTION 2

- 2.1 Study FIGURE 2.1, based on a diagram showing the influence of the plateau on the weather and climate of South Africa.
 - 2.1.1 Does sketch **X** or **Y** indicate a summer condition?
 - 2.1.2 Name pressure cell A.
 - 2.1.3 Name the ocean over which pressure cell **A** is located.
 - 2.1.4 Name pressure cell **C**.
 - 2.1.5 Is pressure cell **B** associated with rising or subsiding air?
 - 2.1.6 Will clear and stable conditions occur in sketch **X** or sketch **Y**?
 - 2.1.7 Does a strong or a weak subsidence give rise to the position of the inversion layer in sketch **Y**?
 - 2.1.8 Must the inversion layer be above or below the plateau for rain to occur over the interior? (8 x 1) (8)

2.2		ne statements below to the diagrams of fluvial features labelled A , E in FIGURE 2.2.	3,
	2.2.1	The river may result in the formation of oxbow lakes.	
	2.2.2	Vertical erosion is dominant in this diagram.	
	2.2.3	The river shows mainly a well-developed meandering stream channel pattern.	n
	2.2.4	The river deposits silt on the river bed forming a braided stream pattern.	n
	2.2.5	River deposition occurs in the shape of a fan.	
	2.2.6	The river is rejuvenating itself.	
	2.2.7	The river is in its upper course. (7 x ²	(7)
2.3	Study F	IGURE 2.3 showing slope winds.	
	2.3.1	Name slope wind A . (1 x ²	1) (1)
	2.3.2	State ONE factor that is responsible for the movement of slope wind A , as shown in FIGURE 2.3. (1 x 1	
	2.3.3	What impact do the uneven slopes have on the air movin downslope? (1 x 2	•
	2.3.4	Explain why a temperature inversion occurs in a valley at night. (2 x 2	2) (4)
	2.3.5	In a paragraph of approximately EIGHT lines, discuss how slope wind A can have both a positive and negative influence of vegetation growth on the valley floor. (4 x 2)	n
2.4	Study F	IGURE 2.4 based on hurricanes.	
	2.4.1	Give evidence that suggests that the conditions shown in the satellite image occurred in the Northern Hemisphere. (1 x 1	
	2.4.2	What is the approximate height of the clouds around the eye? (1 x 1	(1)
	2.4.3	Account for the lack of clouds in the eye. (1 x 2	2) (2)
	2.4.4	What is the source of energy that drives this hurricane? (1 x 2	2) (2)
	2.4.5	Describe the type of weather conditions that surround the eye. (2 x 2	2) (4)

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	2.4.6		a simplified, labelled plan view sketch of the illuane, clearly indicating the following:	ustrated	
		(a)	Air movement around the eye	(1 x 2)	(2)
		(b)	The dangerous semicircle (area where most damage caused when it reaches land)	will be (1 x 2)	(2)
2.5	Study the of a drai	•	hical representation of stream discharge in the differen asin.	t stages	
	2.5.1	Define	e the term stream discharge.	(1 x 1)	(1)
	2.5.2	In whi	ch course is the stream channel at its widest?	(1 x 1)	(1)
	2.5.3	Give a	a possible explanation for your answer to QUESTION 2.	6.2. (1 x 2)	(2)
	2.5.4		TWO reasons for the increase in stream discharge frourse to the lower course.	rom the (2 x 2)	(4)
	2.5.5	the in	aragraph of approximately EIGHT lines, describe and appact of an increase in rainfall on the depth and width the lower course.	•	(8)
2.6			a case study on catchment and river management. R before answering the questions that follow.	ead the	
	2.6.1		TWO initiatives that the Working for Wetlands program place for sustainable river management in South Africa		
		par	prace for eactamazio involuntanagonioni in ecatin innea	(2 x 1)	(2)
	2.6.2		nave catchment management programmes been introdu African rivers?	uced for (1 x 2)	(2)
	2.6.3	•	in the role of wetland restoration in maintaining a goo y in South African rivers.	d water (2 x 2)	(4)
	2.6.4		ss the negative impact of human activities on catchmer oth Africa.	nt areas (3 x 2)	(6) [75]

SECTION B: RURAL AND URBAN SETTLEMENTS AND SOUTH AFRICAN **ECONOMIC GEOGRAPHY**

Answer at least ONE question in this section. If you answer ONE question in SECTION B, you must answer TWO questions in SECTION A.

QUESTION 3

ons. tion

3.1	Choose	the	ns are provided as possible answers to the following questic answer and write only the letter (A–D) next to the ques 1–3.1.7) in the ANSWER BOOK, for example 3.1.8 D.
			wer these multiple-choice questions on the ANSWER SHE e ANSWER BOOK.
	3.1.1	A lo	ose grouping of farmsteads is called a
		A B C D	village. hamlet. metropolis. town.
	3.1.2	The	exact land on which a settlement is built:
		A B C D	Location Site Situation Area
	3.1.3	Sett	lement density refers to the number of settlements per
		A B C D	m². km². cm². mm².
	3.1.4	A cu	Itural factor which influences the location of a site is
		A B	water. pasture.

С fuel. D religion.

3.1.5 A settlement is classified as rural as a result of the ...

> number of people living in the settlement. Α

number of high-order activities. В С function of the settlement.

D number of low-order activities.

- 3.1.6 Dry-point settlements occur near ...
 - A rivers.
 - B oases.
 - C marshes.
 - D high ground.
- 3.1.7 A settlement located next to the river where it could be easily crossed:
 - A Recreational settlement
 - B Gateway settlement
 - C Bridging-point settlement
 - D Crossroads settlement

 (7×1) (7)

3.2 Choose a term from COLUMN B that matches the description in COLUMN A. Write only the letter (A–I) next to the question number (3.2.1–3.2.8) in the ANSWER BOOK, for example 3.2.9 J.

	COLUMN A		COLUMN B
3.2.1	Industries that use bulky and heavy raw materials	Α	bridge industry
	•	В	economic recession
3.2.2	A measure of the goods and services that are produced in a country each year	С	footloose industry
	country cash you.	D	industrial decentralisation
3.2.3	Industrial areas outside the core zoned for economic development	E	gross domestic product
3.2.4	Industries that are not location- dependant	F	export market
	пореживани	G	home market
3.2.5	An industry that is located between its source of raw material and its market area	Н	ubiquitous industry
	material and its market area	lı	heavy industry
3.2.6	A decrease in economic activity		
3.2.7	Markets available within a country for local consumption of products		
3.2.8	Markets in another country where products are sold		

 (8×1) (8)

3.3	Refer to	FIGURE 3.3, a cartoon on the 1913 Natives Land Act in Soutl	n Africa.	
	3.3.1	Define the term land restitution.	(1 x 1)	(1)
	3.3.2	What was the aim of the Natives Land Act, 1913 (Act 27 of 1	913)? (1 x 1)	(1)
	3.3.3	When was the 1913 Natives Land Act repealed?	(1 x 1)	(1)
	3.3.4	Explain why land restitution is suitably linked to the snail.	(2 x 2)	(4)
	3.3.5	Write a paragraph of approximately EIGHT lines, outlining the factors that have slowed down the process of land resouth Africa.		(8)
3.4	Refer t	o FIGURE 3.4, illustrating a central place and its surrers.	ounding	
	3.4.1	What is a central place?	(1 x 1)	(1)
	3.4.2	Clearly distinguish between <i>threshold population</i> and <i>spinfluence</i> , as shown in FIGURE 3.4.	here of (2 x 1)	(2)
	3.4.3	Refer to customers A , B and C .		
		(a) If all three customers bought the same product at the place, for which customer would the product be more		(2)
		(b) Give a reason for your answer to QUESTION 3.4.3(a)	. (1 x 2)	(2)
	3.4.4	Explain how the threshold population impacts on the profit ma business.	nargin of (2 x 2)	(4)
	3.4.5	Describe and explain the impact of the location of a specialised service on the sphere of influence of the central p	• •	(4)
3.5	Refer to	the photograph on small-scale farming in FIGURE 3.5.		
	3.5.1	Define the term small-scale farmer.	(1 x 1)	(1)
	3.5.2	(a) Would you describe the small-scale farmer in the phoas a subsistence farmer or commercial farmer?	otograph (1 x 2)	(2)
		(b) Give ONE reason for your answer to QUESTION 3.5.3	3(a). (1 x 2)	(2)
	3.5.3	Describe ONE problem visible on the photograph, t small-scale farmer experiences.	hat the (1 x 2)	(2)
	3.5.4	Write a paragraph of approximately EIGHT lines to motivimportance of small-scale farming for local communities.	vate the (4 x 2)	(8)

Refer to FIGURE 3.6, providing information on the Durban-Pinetown Industrial

Region.			
3.6.1	What evidence suggests that Durban-Pinetown is growing rapi an industrial area?	idly as (1 x 1)	(1)
3.6.2	Name a raw material that has supported industrial growth region.	in this 1 x 1)	(1)
3.6.3	Quote ONE of the main benefits of the Cornubia Industrial FIGURE 3.6.		(1)

3.6.4 Explain how the benefit identified in QUESTION 3.6.3 will assist local communities. (2 x 2)

3.6.5 How does the infrastructure in this industrial region support rapid industrial growth? (2 x 2) (4)

3.6.6 Use examples and explain why this industrial region has many break-of-bulk industries. (2 x 2)

(4) **[75]**

(4)

QUESTION 4

3.6

4.1 Choose a term from COLUMN B that matches the description in COLUMN A. Write only the letter (A–H) next to the question number (4.1.1–4.1.7) in the ANSWER BOOK, for example 4.1.8 I.

	COLUMN A		COLUMN B
4.1.1	Largest type of rural settlement	Α	nucleated settlement
4.1.2	Merging of cities to form a continuous urban area	В	megalopolis
		С	farmstead
4.1.3	Smallest settlement type	D	village
4.1.4	A single city that is surrounded by		village
	dependent towns	Е	town
4.1.5	Smallest type of urban settlement	F	conurbation
4.1.6	When buildings in a settlement form a	G	metropolis
	compact unit	Ιн	settlement design
4.1.7	The largest urban settlement type		

 (7×1) (7)

4.2 Refer to FIGURE 4.2 on economic geography to answer this guestion.

Choose the correct word from those given in brackets. Write only the word next to the question number (4.2.1–4.2.8) in the ANSWER BOOK.

- 4.2.1 The (secondary/tertiary) sector refers to the provision of services.
- 4.2.2 After extraction, value is added to raw materials in the (secondary/tertiary) sector.
- 4.2.3 Economic growth in the primary sector declined due to the decrease in (agriculture/mining).
- 4.2.4 The service sector that has shown the biggest growth is (mining/finance).
- 4.2.5 The (secondary/tertiary) sector contributes the least to the South African economy.
- 4.2.6 The mining sector has grown due to increased production in (gold/platinum).
- 4.2.7 The growth in trade is linked to a growth in (manufacturing/agriculture).
- 4.2.8 The sector to which tourism makes a contribution is the (secondary/tertiary) sector. (8 x 1) (8)
- 4.3 Refer to FIGURE 4.3 showing rural-urban migration.
 - 4.3.1 Define the term *rural-urban migration*. (1 x 1)
 - 4.3.2 Why is a magnet used in the diagram to illustrate rural-urban migration? (1 x 1) (1)
 - 4.3.3 Name TWO push factors, visible in the diagram, resulting in rural-urban migration. (2 x 1) (2)
 - 4.3.4 State TWO ways in which rural-urban migration impacts negatively on the rural community. (2 x 2)
 - 4.3.5 In a paragraph of approximately EIGHT lines discuss sustainable measures that can be introduced in rural areas to reduce rural-urban migration. (4 x 2) (8)

		TOTAL	L: 225
	4.6.5	Why are female workers important to the informal sector of the economy? (2 x 2)	
	4.6.4	Describe and explain the negative impact of any ONE of the declining working conditions on workers in the informal sector. (2 x 2)	
	4.6.3	Suggest TWO reasons for the forced removal from the place trading to a new location. (2 x 2)	
	4.6.2	What trend does the net monthly income show from 2008 to 2016? (1 x	1) (1)
	4.6.1	Define the term <i>informal sector</i> . (1 x	1) (1)
4.6		the graphical data on the informal sector in FIGURE 4.6.	
	4.5.5	In a paragraph of approximately EIGHT lines, explain ho South Africa and Mozambique have benefited from the Maputo Development Corridor. (4 x 2)	ne
		(b) Comment on why this type of trade is an advantage South Africa. (1 x 2)	
		(a) What does the statement <i>trade is outward bound</i> mean? (1 x 2	2) (2)
	4.5.4	Refer to the statement, 'Trade is largely outward bound.'	
	4.5.3	Name TWO infrastructure facilities that support the growth of the Maputo Development Corridor. (2 x	
	4.5.2	Which core industrial area in South Africa benefits the most from the Maputo Development Corridor? (1 x	
	4.5.1	Give evidence from the extract that confirms that the Maputo Development Corridor is a successful initiative. (1 x	ne 1) (1)
4.5	Refer to	the newspaper extract on the Maputo Development Corridor.	
	4.4.5	Suggest THREE ways in which traffic congestion can be reduced. (3 x 2	2) (6)
	4.4.4	Give TWO reasons why bike lanes are becoming more important most urban land-use zones. (2 x 2	
	4.4.3	State TWO environmental impacts of the problem identified QUESTION 4.4.1. (2 x	
	4.4.2	Which phrase in the cartoon suggests that the cyclists are movin faster than the cars? (1 x	_
	4.4.1	Name the urban problem in the cartoon. (1 x	1) (1)
4.4	Study F	IGURE 4.4 based on an urban problem.	