KCSE 2017 4.10.2 Geography Paper 2 (312/2)

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SECTION A

ANSWER ALL QUESTIONS

1. (a)	Identify three counties in Kenya where wheat is grown on a large scale.	3 marks
	Narok	
	Nakuru	
	Uasin Gishu	
	Nyandarua	
	Meru	
	Laikipia	
	Transzoia	
	Elgeyo Marakweti	
	Any 3 x 1 =	
(b)		3 marks
	State three climatic conditions that affect wheat farming. Frost	
	Drought/Unreliable rainfall/very heavy rainfall	
	Prolonged cold/hot seasons/high temperatures	
	Strong winds which cause soil erosion	
	Hailstones.	
2.	Any 3 x 1 =	4 marks
2.	Give the differences between softwood forests in Kenya and Canada	4 marks
	- Canada's softwood forests are mainly natural whereas Kenya's	
	softwood are planted.	
	- In Kenya softwood forests are found in the highlands while in Canada	
3	softwood forests are found in both highland and lowland areas.	
	- In Canada softwood forests cover large tracts of land while in Kenya	
	softwood forests cover a smaller area.	
	- In Kenya softwoods mature faster than those in Canada.	
	- Kenya has a low variety of softwoods while Canada has a wider	
	variety.	
3. (a)	Any 4 x 1 =	
5. (a)	List three traditional methods of fishing	3 marks
	- Basket method	
	- Spear / arrow/harpooning	
	- Use of barriers/traps	
	- Use of herbs	
	- Gill nets	
	- Hook and line	
	- Use of lamp and net/lampara	
	Any 3 x 1 =	

(b)	 Give three similarities of fishing in Kenya and Japan. In both countries fresh water and marine fishing are practiced. Inshore marine fishing is practiced in both countries, Both countries practice fish farming. Overfishing is a problem in both countries. Both use fish as a raw material Both use modern fishing technology Both consume fish locally and export. In both countries fishing is supported by the government. 	3 marks
4.	Any 3 x 1 = State four disadvantages of solar energy - Solar panels are expensive to manufacture. - Low energy production. - Solar batteries are cumbersome. - Solar energy has limited use. - Solar technology is new hence used by few people. Any 4 x 1 =	4 marks
5. (a)	Name the two types of water transport - Inland/river/lakes /canals/ waterways - Oceanic/marine/sea waterways	2 marks
(b)	 Give three challenges facing railway transport in East Africa Competition from other means of transport which are faster. High cost of railway network maintenance/inadequate capital to establish/expand railway network/purchase trains. Mismanagement of rail services. Use of different railway gauge makes interconnectivity difficult. Vandalism /uprooting of railway line. 	3 marks

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SECTION B

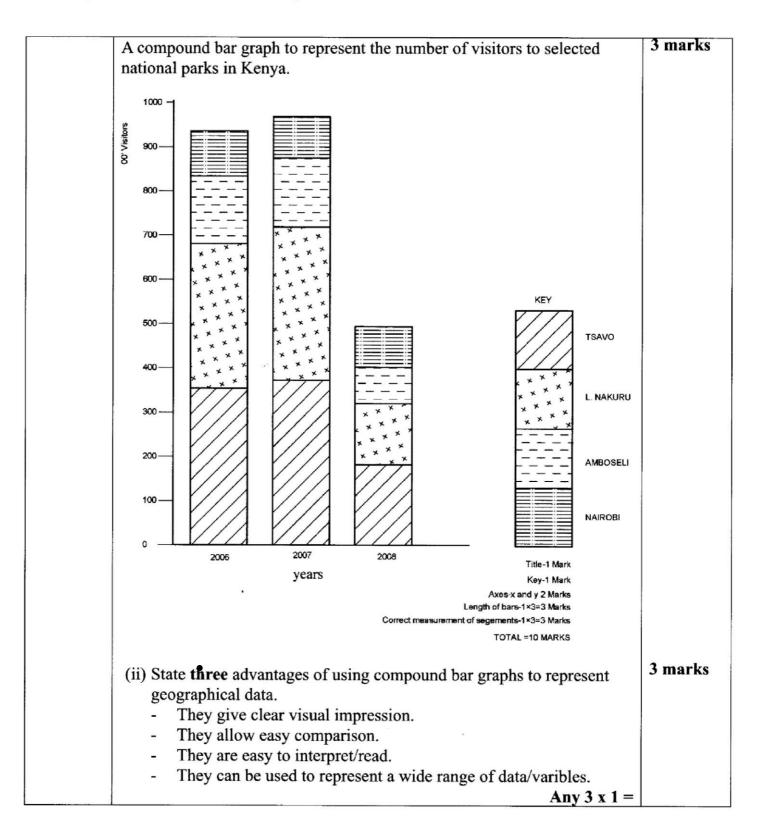
Answer question 6 and two other questions in this section.

selected national parks in Kenya for the years 2006 to 2008.				
Use it to answer	the questions that	follow.		
PARK/YEAR	2006	2007	2008	1
NAIROBI	102	93	92	
AMBOSELI	153	156	82	
TSAVO	354	372	182	
LAKE NAKUP	RU 327	347	138	
	936 difference in the m			
(i) What is the	difference in the m	umber of visi	tors who	
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Compound Bar graph Representing visitors to selected National Parks in Kenya

- (b)
- (i) Draw a compound bar graph to represent the number of visitors to selected national parks in Kenya. Use the scale of 1cm to represent 100,000 visitors.



		9 marks
(c)	 Explain four problems associated with Tourism in Kenya. Some of the tourists are drug traffickers/introduce drugs to the youth/ people which leads to poor health /high crime rate. The presence of tourists attract crimes especially those who want to rob them hence discouraging the tourists. Some tourists engage in immoral activities which encourages spread of sexually transmitted diseases. Erosion of the social/moral values of the local people who imitate foreign cultures. High rate of school dropouts,which leads to high illiteracy levels. Interference of animal way of life because of the movement of tourists in the parks. It encourages poaching leading to decline of wild animals. It encourages environmental pollution leading to death of animals/ stroke environment degradation. 	8 marks
	Any 4 x 2 =	2 marks
7(a)	(i) What is beef farming? It is the rearing of cattle for meat.	2 mar 83
	 (ii) Identify five factors that favour beef farming in Kenya. Extensive flat land Natural grass/ pasture. Moderate temperatures/18-28°C/ warm-hot climate. Availability of watering points/sites such as swamps. Moderate rainfall / 500mm -999mm. Availability of ranching schemes to control overgrazing/pests/ diseases. Cultural practices/local people that practice livestock farming as their livelihood. Availability of marketing/ demand 	6 marks
(b)	 They keep large herds of animals/many kinds of animals/ overstocking. They keep animals as a sign of wealth/prestige. Land in which the animals are kept is communially owned. The animals are weakened by pests and diseases/have low value/ unhealthy. The animals are moved seasonally in search for pasture and water. There is uncontrolled breeding of animals. There is inefficient marketing system/walking for long distances to the market. Animals are exposed to cattle rustling/frequent raids. They rely on it for subsistence/ income 	
1	- Dwell in temporal structures.	

(c) (d)	 Give reasons why beef production is higher in Argentina than Kenya. Argentina has larger/better organized/managed ranches than in Kenya. Argentina has high quality cattle than Kenya. Argentina has better methods of animal husbandry/control of diseases/ extension services than Kenya. Argentina has nutritious grass/fodder/alfafa . Argentina has pastures throughout the year due to the maritime climate. The ranches are well watered by wind pumps which reduces movement/weight loss in search for water. Argentina has high advanced technology/ external market for beef farming. Argentina has large local/external market for beef. It has a well-developed railway/road network that transports beef cattle to the factories. Argentina has large local/external market for beef. Explain the role played by beef farming to the economy of Kenya. Beef cattle provide meat/animal products for exports which earns the country foreign exchange. It has provided employment to many people in the slaughter houses/ butcheries/ranches improving their living standards. It provides raw materials to industries such as meat processing/leather industries. Products of beef are sold locally to earn income/improved living standards of farmers. (It has improved the living standards of the farmers who earn income through the sales). It has lead to development of roads easing transport. The government earns revenue for economy development. 	6 marks 6 marks
8(a)	 Apart from irrigation, give four methods of land reclamation in Kenya. Draining swamps. Improving soil through the use of manure and fertilizer. Controlling soil erosion. By afforestation Through controlling pests. 	

(b)	Explain four physical factors which influenced the location of Mwea	8 marks
	irrigation scheme.	
	- Availability of extensive land which enables expansion of growth of	
	rice.	
	 Warm climatic conditions/ high temperature suitable for growth of rice. 	e
	 Presence of river Nyamindi and Thiba/ murubara which provide water 	
	for irrigation throughout the year.	
	- The area is gently sloping which allows mechanization flow of water	
	by gravity.	
	 Presence of black cotton/ clay soil which is suitable for rice 	
	cultivation/water retention.	
	- The low unreliable rainfall making irrigation the only alternative.	
(c)	(i) Name three crops grown in the polders in Netherlands. Any $4 \times 2 =$	3 marks
(0)	- Rye	
	- Wheat	
	- Vegetables	
	- Fruits	
	- Barley	
	- Potatoes	
	- Oats - Beetroots	
	- Flowers	
	- Sugar -beet.	
	Any 3 x 1 =	6 marks
	(ii) Describe the stages of realemation of land from the ses in the	
	 (ii) Describe the stages of reclamation of land from the sea in the Netherlands. 	
	 Protective dykes/sea walls constructed to enclose the part of the 	
	sea which is to be reclaimed.	
	- Ring canals are constructed on the interior sides of the dykes to	
	carry away excess water.	
	- Pumping stations are installed to pump water from enclosed area.	
	- Water is pumped out of the area enclosed by the dyke.	
	 Reeds are planted to drain excess water and use up the excess salt. 	
	- Drainage ditches and more pumping stations are put on the land	
	being reclaimed.	
	- Drainage pipes are laid below the soil.	
	- Inner dykes and ring canals are used to divide area into regular	
	portions.	
	 Soils are treated with chemicals to lower salinity. The drained land is flushed with fresh water to remove salt from 	
	the soil.	
	- Water is pumped from the polders regularly to avoid its	
	accumulation in the reclaimed land.	
	6 x 1 =	

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(4)	State four benefits of land reclamation in the Netherlands.	4 marks
(d)		
	- Reclamation has created more land for agriculture/settlement.	
	- Reclaimed land has improved agricultural output.	
	- Land reclamation has resulted in improved fresh water supply for	
	domestic/industrial use.	
	- Construction of dykes around the polder has helped control floods/sea	
	invasion.	
	- Construction of dykes / canals has improved transport network.	
	 Reclamation has created sceneries for tourists' attractions. 	
	- Reclamation and associated activities have created job opportunities.	
	Any 4 x 1 =	
9.	a) Explain the following types of settlement patterns	(4 marks)
- LEASE LINE	Dispersed settlement pattern	
	- Dwellings/structures are scattered	
	- The dwellings may be separated from one another by physical	
e -	features	
	- The dwellings are found a distance apart.	
	(Any $2 \ge 4$ marks)	
	Nucleated settlement pattern	(2 marks)
	- The houses, shops and other buildings are close to each other/	
	in one place.	
	(2 marks)	
	b) State four problems facing the city of Nairobi	(4 marks)
	- High rate of unemployment	
	- Shortage of housing	
	 Inadequate social amenities such as schools, water supply, 	
	health services and recreation facilities.	
	 Traffic congestion during rush hours. 	
	 Increased crime rate. 	1
	- Increased noise/ land/ air pollution.	
	- Development of slums/unplanned settlement.	
	- Street families.	
	(Any 4 x 1 = 4 marks)	

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	c) State factors which led to the growth of Kisumu as a Lake port	(/ marks)
	- Early settlement by Asians led to commercial development of	
	the town.	
	- It is strategically located on the shores of Lake Victoria.	
	- It is surrounded by areas with dense population which provide	
	labour/market.	
	- It has ample water supply from Lake Victoria for industrial/	
	domestic use.	
	- It has well developed transport systems/railway/roads/air port.	
	 It is the headquarters of Kisumu County/Nyanza region 	
	 It has a rich agricultural hinterland which provides raw 	
	materials for industries.	
	- It has many industries.	
	 Fishing activities in lake Victoria. 	
	- It is theterminus for the kenya / Uganda railway.	
	(Any 7 x 1 = 7 marks)	
	d) Explain four ways in which the port of Mombasa differs from	(8 marks)
	Rotterdam port.	
	 Rotterdam uses advanced technology in cargo handling while 	
	Mombasa has low technology.	
	 Mombasa experiences tropical climate while Rotterdam 	
	experiences cool temperate climate.	
	 Rotterdam handles a large volume of cargo while Mombasa 	
	handles less cargo/ Rotterdam has a large number of berths	
	while Mombasa has few berths.	
	 Mombasa exports mainly agricultural raw materials while 	
	Rotterdam exports manufactured goods from her hinterland.	
	- Mombasa depends on road, railway, air and pipeline transport	
	system while Rotterdam has in addition, river and canal	
	transport.	
	(Any 4 x 2 = 8 marks)	
10.	a) Define the term environmental management	(2 marks)
	It is effective planning and control of the processes and activities that	
	could cause the deterioration of the environment/improving resources	
	in the environment.	
	b)	(2 marks)
	i. Name two areas in Kenya that are prone to lightning	
	 The Lake Victoria region/Kisumu/Siaya/Homabay/Migori 	
	 West of the RiftValley/Westpokot/Kakamega/Vihiga/Busia/ 	
	Bungoma.	
	- The highlands of Kisii, Kericho and Nandi, Nyamira, Uasin	
	Gishu, Bomet.	
	(Any 2 x 1 = 2 marks)	

		(4 marks)
- 1	ii. State four problems caused by lightning	(4 marks)
	- It has killed many people/ animals	
	- It has destroyed property /buildings / trees	
	- It causes fires that may destroy vegetation	
	- It has interrupted electricity cause power failures.	
	- It has interrupted communication.	
	- (Any $4 \times 1 = 4 \text{ marks}$)	
	ii. Explain three ways in which the menace of pests can be	(6 marks)
1	controlled in Kenya	
	- Use of chemicals/herbicides/fungicides/pesticides/insectcides	
	to control/kill the pests.	
	 Developing plant species that are resistant to pests and 	
	diseases.	
	- Use of biological control measures such as breeding sterile	
	male which does not allow breeding of some pests such	
	as tsetse fly/organisms that destroy undesirable pests are	
	introduced.	
	 Development of improved / effective alternative pesticides to 	
	kill resistance pests.	
	 Education on proper use of chemicals to control pests and 	
	diseases.	
	 Clearing the vegetation that is habitat for pests. 	
	- Clearing the vegetation that is habitat for pests. (Any 3 x $2 = 6$ marks)	
c)		(6 marks)
	conserve the environment	
	- Making legislative laws that govern environmental	
	management and conservation.	
	 Setting up organizations, such as Green Belt Movement / 	
	NEMA to protect the environment.	
	Constinue in 11: a surger of through made modio/comingra/	
	- Creating public awareness through mass media/seminars/ education on the need to conserve the environment	
	Provide the second se	
	- Research on various aspects of conserving the environment in institutions such as KARI/ICIPE	
	- Setting up of recycling plants for recycling waste materials to	
	protect the environment and keep it clean.	
	- Signing international agreement / protocols to reduce green	
	house gases emission effects to protect the environment from	
	pollution. Dehebilitation of develot land	
	- Rehabilitation of derelict land	
	- Reafforestation / afforestation.	
	- Encouraging use of modern energy saving technologies such	
	Eco- jikos. $(A n x \in x) = 6 mort/s)$	
	$(Any \ 6 \ x \ 1 = 6 \ marks)$	

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d) Your cla	ass intends to carry out a field study in the limestone mining	(2 marks)
areas.		
i. Ider	tify two types of pollution that they may observe	
	- Water pollution	
	- Air pollution	
	- Soil/ land pollution	e
	- Noise / sound pollution.	
	(Any 2 x 1 = 2 marks)	
ii. What	at problems are you likely to encounter during the study?	(3 marks)
	 Loud noise from the excavators 	
· ·	- Difficult terrain with heaps and deep pits to walk through	
	 Accidents may occur/injuries. 	
	 Hot weather leading to fatigue. 	
	- Insect/ snake bites	
-	 Dusty conditions /toxic gases 	
	- Dishonest / unco-operative respondents	
	(Any 3 x 1 = 3 marks)	