

# UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS General Certificate of Education Advanced Subsidiary Level and Advanced Level

GEOGRAPHY 9696/33

Paper 3 Advanced Human Options

May/June 2013

**INSERT** 

1 hour 30 minutes

#### READ THESE INSTRUCTIONS FIRST

This Insert contains all the Figures referred to in the questions.

Figs 1A and 1B for Question 1

# Irrigated area and fertiliser use, 1972-1998

# Irrigated area

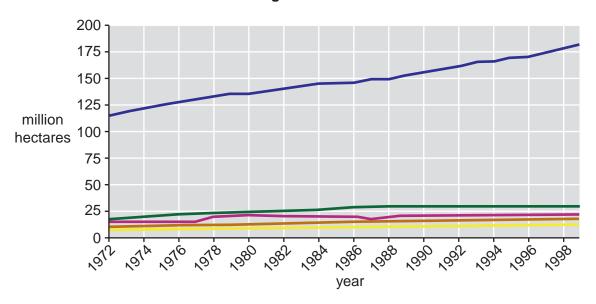


Fig. 1A

#### Fertiliser use

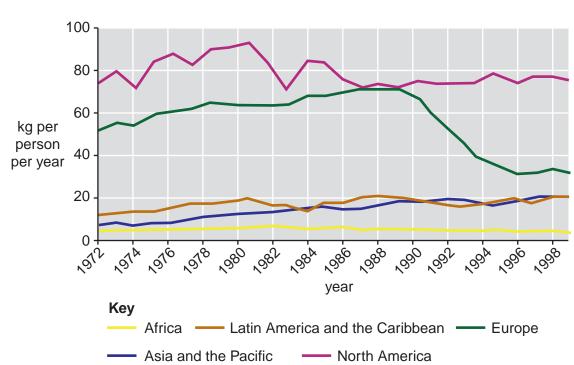


Fig. 1B

# Figs 2A and 2B for Question 3

# Introduction to biofuels and biomass energy

Biofuels are an important source of energy, supplying 10.8% of the world's *total energy demand* in 2009.

Biomass is biological material derived from living or recently living organisms. Biomass for energy is often used to mean plant-based material but it can also include animal products. Biomass energy is the general term for such matter which can be used as biofuel. This includes wood and charcoal, energy crops, agricultural waste, food waste and human and domestic waste.

Fig. 2A

# Electricity produced from three renewable sources in 2010 90 80 70 60 50 gigawatts 40 30 20 10 na 0 wind biomass solar Key LEDCs and NICs **European Union USA** information not available na

Fig. 2B

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Fig. 3 for Question 5

Preferential tariffs applied by MEDCs on key products from the poorest countries, 1996–2008

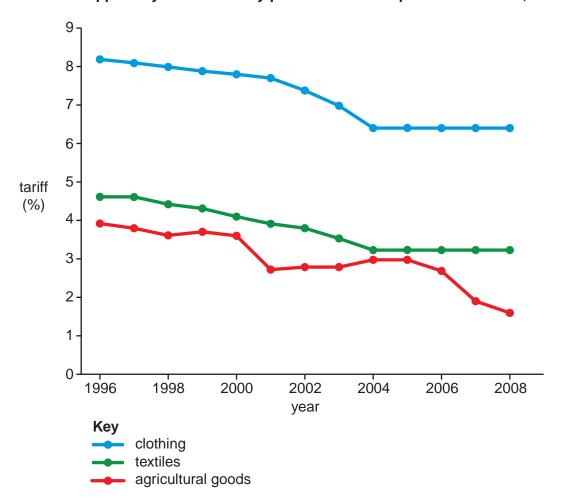


Table 1 for Question 7

GDP for the largest economies in 2009 and projected for 2050

2009 rank		GDP in billions	2050 rank		Projected GDP in billions
1	USA	\$14,256	1	China	\$59,475
2	China	\$8,888	2	India	\$43,180
3	Japan	\$4,138	3	USA	\$37,876
4	India	\$3,752	4	Brazil	\$9,762
5	Germany	\$2,984	5	Japan	\$7,664
6	Russia	\$2,687	6	Russia	\$7,559
7	UK	\$2,257	7	Mexico	\$6,682
8	France	\$2,172	8	Indonesia	\$6,205
9	Brazil	\$2,020	9	Germany	\$5,707
10	Italy	\$1,922	10	UK	\$5,628