

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CANDIDATE NAME					
CENTRE NUMBER			CANDIDATE NUMBER		

1399984777

BANGLADESH STUDIES

0449/02

Paper 2 Environment and Development of Bangladesh

May/June 2018

1 hour 30 minutes

Candidates answer on the Question Paper.

Additional Materials:

Insert

READ THESE INSTRUCTIONS FIRST

Write your Centre number, candidate number and name in the boxes above.

Write in dark blue or black pen.

You may use an HB pencil for any sketch maps, diagrams or graphs.

Do not use staples, paper clips, glue or correction fluid.

DO NOT WRITE IN ANY BARCODES.

Write your answer to each question in the space provided.

If additional space is required, you should use the lined page at the end of this booklet. The question number(s) must be clearly shown.

Answer three questions.

You are advised to spend about 30 minutes on each question.

The number of marks is given in brackets [] at the end of each question or part question.

The Insert contains Fig. 4.2 for Question 4(b) and Fig. 5.1 for Question 5(a).

The Insert is **not** required by the Examiner.



Answer three questions.

1 (a) Study Fig. 1.1, a map of Bangladesh.

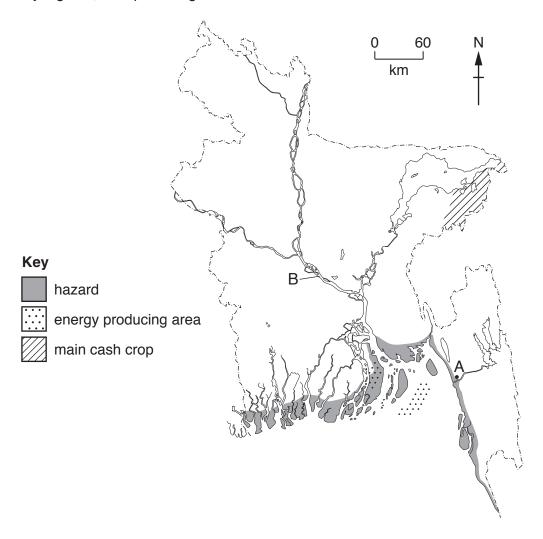
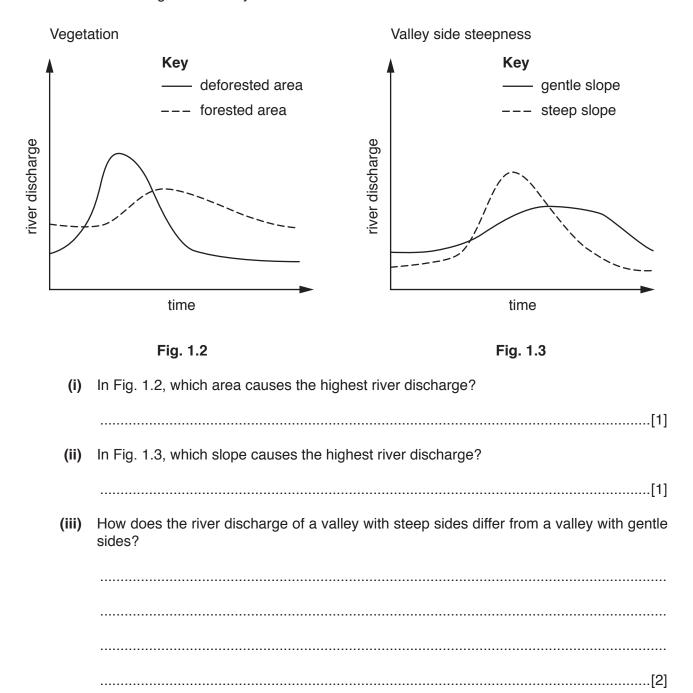


Fig. 1.1

Name the following features:

(i)	city A;	
		[1]
(ii)	river B;	
		[1]
(iii)	the hazard shown on the map;	
		[1]
(iv)	the energy source shown on the map;	
		[1]
(v)	the main cash crop shown on the map.	

(b) Study Figs. 1.2 and 1.3, which show how vegetation and valley side steepness can affect a river's discharge after heavy rainfall.



	(iv)	Explain how deforestation causes flooding.	
			[4]
	(v)	Describe and explain two other factors which cause flooding in Bangladesh.	
			[<u>4</u> 1
(c)	Dra	w and label a diagram to explain the formation of thunderstorm rainfall.	[⊤]
(-)		pace for diagram	
	J.	Dace for diagram	

	We need more food aid and water purification tablets now.		
	local resident	Longer term plans such as new dams and more flood warnings are important. government official	
i)	Give one piece of evidence in sup	port of the local resident.	
i)	Give one piece of evidence in sup	port of the government official.	
i)			
i) i)		port of the government official.	
		port of the government official.	
		port of the government official.	
		port of the government official.	

2 (a) Study Fig. 2.1, which is an article on hydro-electric power.

Bangladesh to invest in Bhutan's hydro-electric power project

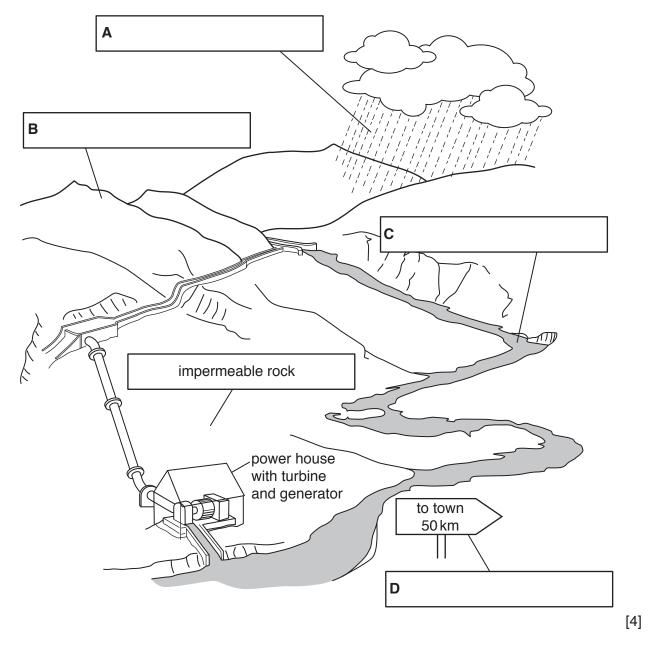
18 May 2016

Bangladesh is to invest with India in a hydro-electric project in Bhutan. Bangladesh's economic affairs minister said 'We have been dreaming of importing power from Bhutan for a long time. The fact that demand for power in both Bangladesh and India will keep increasing presents a big economic opportunity for Bhutan.' This project will also strengthen the relationship between the three countries. Bangladesh aims to become a middle income country and will need to import power from Bhutan to meet the growing energy demand.

Fig. 2.1

(i)	Using Fig. 2.1, describe two advantages for Bangladesh of investing in the hydro-electric power project.
	[2]

(ii) Label the diagram to show the physical factors required by the hydro-electric power station.



(b) The main energy used in rural industries and homes in Bangladesh is biomass.

(i)

Name two sources of biomass.	
	[2]
	[∠

	(ii)	What are the disadvantages of using biomass in rural areas?	
(c)	(i)	What is sustainable development?	[3]
			[1]
	(ii)	Study Fig. 2.2, which shows sources of water in urban areas in Bangladesh.	
		0 10 20 30 40 50 60 70 80 90 100%	
		Key	
		source of water: tube wells	
		piped inside dwelling	
		piped outside dwelling	
		Fig. 2.2	
		On Fig. 2.2, complete the graph using the following figures:	
		 tube wells – 68% piped inside dwelling – 24% piped outside dwelling – 8% 	[2]
	(iii)	Describe two domestic uses of water.	

(iv)	Explain two ways in which Bangladesh has improved its domestic water supply	/ .
		[4]
Stu		
(i)	Give one piece of evidence which supports statement A.	
		[1]
(ii)	Give one piece of evidence which supports statement B.	
		[1]
(iii)	Which opinion do you agree with the most? Give reasons for your answer.	
		[31
		Total: 25]
	Stu A B (i)	Study the two statements below. A 'Providing clean water for everybody remains the main priority for Bangladesh.' (i) Give one piece of evidence which supports statement A. (ii) Give one piece of evidence which supports statement B. (iii) Which opinion do you agree with the most? Give reasons for your answer.

3 (a) Study Table 3.1, which shows some indicators of development in three countries.

Table 3.1

country	life expectancy (2014) (years)	adult literacy (percentage)	GDP per capita (2014) (US\$)	incidence of tuberculosis (TB) (per 100 000)
Bangladesh	72	60	1086	227
India	68	69	1581	167
Myanmar	66	93	1203	369

Using Table 3.1:

(i)	identify the country which has the highest life expectancy;
	[1]
(ii)	identify the country which is likely to have poor access to a doctor;
	[1]
(iii)	explain why it is difficult to decide which country in Table 3.1 has the highest level of development;
	[4]
(iv)	name one other indicator which can be used to measure a country's development.
	[1]

			'	1			
(b) Expla	ain two ways	s in which Ba	ngladesh is	continuing to	improve edu	ucation with	in the country
							[4]
(c) Study	/ Fig. 3.1. a	graph which	n shows the	detection ra	ite of tubercu	ılosis (TB) i	n Bangladesh
from	2005 to 201	5.				,	3
	60					_	
	50						
	40	• •					
tuberculosis (TB) 30						
rate						V.	
(%)	20					Ke	- y – Bangladesh
	10						
	0 2005	2007	2009	2011	2013	2015	
	2003	2007		ear	2010	2013	
			Fig.	3.1			
(i) I	Describe the	main chang			rom 2005 to 2	2015	
(-)						-0.01	

(11)	and malaria can be controlled.
(D) (C)	dy the statement below.
	ore investment in private sector health care is the key to improved health care in ngladesh.' Give one piece of evidence which supports the statement.
/ii\	Give and piece of evidence which does not support the statement
(ii)	Give one piece of evidence which does not support the statement.
(iii)	[1]
	How far do you agree with the statement? Give reasons for your answer.
	How far do you agree with the statement? Give reasons for your answer.
	How far do you agree with the statement? Give reasons for your answer.

4 (a) Study Fig. 4.1, which shows a statement about agricultural productivity in Bangladesh.

'Bangladesh has raised agricultural productivity significantly in the last few decades. It is remarkable that, with so many people and so little arable land, the country has been able to provide sufficient food for almost everyone,' said Qimiao Fan, World Bank Country Director for Bangladesh, Bhutan and Nepal. 'While rice will remain its focus, Bangladesh needs to find effective ways to diversify its agriculture, as well as adapt to a changing climate.'

Fig. 4.1

(i)	Using Fig. 4.1 only, describe two challenges faced by agriculture in Bangladesh.	
		[2]
(ii)	Describe the growing conditions required by rice.	
		[3]

(iii)	Describe and explain three different ways that Bangladesh has increased its food production.
	[6]
(b) Stu	udy Fig. 4.2 (Insert), a photograph which shows a rural area in Bangladesh.
(i)	Describe how the land is being used in Fig. 4.2.
	[2]
(ii)	Suggest three problems faced by farmers in rural areas like the one shown in Fig. 4.2.
	[3]

(c)	In the south of Bangladesh waterways are the main type of transport. What are the advantages and disadvantages of using waterways for transport?		
	adv	rantages	
	disa	advantages	
		[4]	
(d)	Stu	dy the two statements below.	
	(Continuing to increase crop yield and type of crop (diversity) is key to the future economic development of Bangladesh.' Protecting the environment is key when developing Bangladesh's agriculture.'	
	(i)	Give one piece of evidence which supports statement A.	
	(1)	GIVE PLOSE OF EVICENCE WHICH Supporte Statement 7.	
		[1]	
	(ii)	Give one piece of evidence which supports statement B.	
		[1]	
	(iii)	Which opinion do you agree with the most? Give reasons for your answer.	
		[3]	
		[Total: 25]	

(i)	Which cottage industry is shown in Fig. 5.1?
	[
(ii)	Name three other types of cottage industry.
	[
(iii)	Describe how the cottage industry differs from large-scale industry in Bangladesh.

(b) (i)	What is meant by the term 'informal sector'?
	[1]
(ii)	In Bangladesh, nearly 90% of the total number of jobs are in the informal sector. Explain why so many people work in the informal sector.
	[5]

TURN OVER FOR QUESTION 5(c)

(c) Study Fig. 5.2, a graph showing the percentage of population with access to electricity and the percentage of electricity obtained from renewable sources.

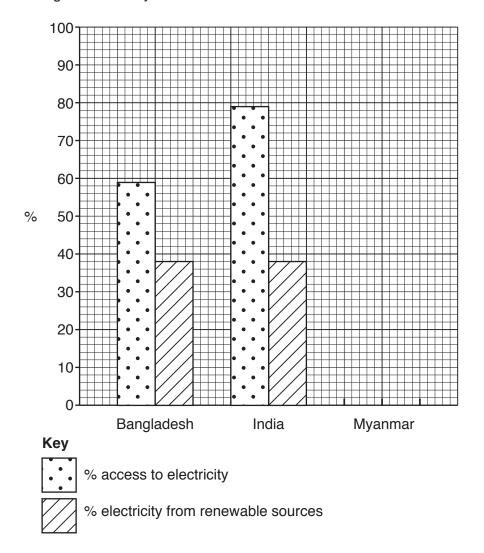


Fig. 5.2

- (i) On Fig. 5.2, complete the bar graph for Myanmar using the following figures:
 - % access to electricity 52%

(ii)

% electricity from renewable sources – 79%

Using Fig. 5.2, compare percentage access to electricity and electricity from renewable

[2]

sources in Bangladesh with that in India and Myanmar.

- (d) Study the two statements below.
 - A 'Supporting cottage industries and small-scale industries is key to further reducing poverty in Bangladesh.'
 - B 'Improving roads and electricity provision in rural areas is key to further reducing poverty in Bangladesh.'

(i)	Give one piece of evidence which supports statement A.
	[1]
(ii)	Give one piece of evidence which supports statement B.
	[1]
(iii)	Which opinion do you agree with the most? Give reasons for your answer.
	[3]

[Total: 25]

Additional Page

If you use the following lined page to complete the answer(s) to any question(s), the question number(s) must be clearly shown.

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