SPECIMEN MARKING SCHEME

0449/02

Environment and Development of Bangladesh

This specimen marking scheme is neither exhaustive nor prescriptive. It is an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners award marks. It only provides notes and does not give detailed sample answers. It does not indicate the details of the discussions that take place at an Examiners' meeting before marking begins; it would be amended at this meeting prior to marking the candidates' scripts.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

1.	(a)	(i)	highest in the south-east highest peak – 898 metres steep slopes in the west – rounded foothills ravines/valleys main river – Karnaphuli				
			waterfalls trellis drainage pattern in the e	ast 5 at 1 mark	[5]		
		(ii)	suitable relief – steep-sided va valley dammed – Lake Kaptai high rainfall				
		(iii)	B – Tista River C – Padma River	2 at 1 mark	[2] [2]		
(b)			deposition heavy load carried by river river's speed checked as it enters the sea shallow water no currents/strong tides sheltered/calm sea salt water causes fine mud to coagulate deposition along tributaries distributaries advances seaward				
			For full marks there must be a the diagram first then the text,	labelled diagram. If there is text – mark but no double marking.			
				6 at 1 mark	[6]		
	(c)	(i)	Deforestation in the Himalayas less interception – more surface soil erosion – silting heavy rainfall – rapid surface ru high water table snow melt in the Himalayas				
				5 at 1 mark	[5]		
		(ii)	No mark for 'not effective/very	effective'. Need reasons.			
			Flood Action Plan – international embankments – allow elaboration logging canals and channels sluice gates barrages dams in India - Farraka	al organisation on – change environment, less silt, water			
				5 at 1 mark	[5]		

2.	(a)	(i)	530 mm			[1]
		(ii)	seasonal high March to October heaviest July and August no rain/drought January to Ma very little April, November and			[3]
		(iii)	range of 8°C high temperature uniform May to November highest in April	3 at 1 mark		[3]
	(b)	(i)	seasonal winds that bring hea	vy rainfall		[2]
		(ii)	high pressure over Australia low pressure over Indian sub- winds blow from high pressure winds blow across Indian Oce	e to low pressure	temperatures	[5]
	(c)		crops die livestock die lack of food/starvation malnutrition lack of income poor harvest			
			poor narveot	4 at 1 mark		[4]
	(d)	increased use of groundwater iron and manganese compounds dissolve increased irrigation caused aquifers to drop – compounds exposed to oxygen and release arsenic percolate into water table during monsoon season poisons body – cancer of skin, lungs, bladder, kidneys changes skin pigmentation and thickens - gangrene kidney and liver problems breathing problems				
			Allow elaboration			 -
				7 at 1 mark	Total 25 marks	[7]

3.	(a)		subsistence – used by farmer and family little surplus for sale commercial – grow to sell – income for farmer			
			2 at 1 mark	[2]		
	(b)		Flat, low-lying land alluvial soils – from flooding of rivers water retaining soils temperatures 16°C – 27°C rainfall high – 1000 to 3000 mm	[5]		
	(c)	(i)	production – increased steady at first/1994 to 1998 highest increase after 1999 acreage remained steady only slight increase decreased 1998 –1999 but rice production rose			
			4 at 1 mark	[4]		
		(ii)	Amount of land use similar, but more rice produced Therefore higher yield – more rice per acre of land 2 at 1 mark	[2]		
		(iii)	HYV seeds irrigation fertilisers insecticides/pesticides technology/machinery co-operatives loans			
			Allow elaboration 6 at 1 mark	[6]		
	(d)		No mark for yes/no/ maybe. Mark reasons.			
		Food crops – increased population improved standard of living better nutrition better state of health reduces imports – money could be spent on developments Cash crops – needed for industry as raw materials – examples increased income/GNP/foreign exchange leads to other industries – fertilisers, irrigation equipment, tractors				
			Allow elaboration 6 at 1 mark	[6]		

4.	(a)	(i)	small in the home family labour women and children employed low capital local raw materials use traditional crafts and methods examples to 2 marks max. Allow elaboration 4 at 1 mark	[4]
		(ii)	employment self esteem helps family income develop skills Allow elaboration	
			4 at 1 mark	[4]
	(b)		high increase in number of factories source of foreign exchange – 55% export earnings exports to 50 countries – US, Canada, France, Italy, Germany, UK increased employment particularly women (80% workforce) Allow elaboration	
			4 at 1 mark	[4]
	(c)		2500 (accept up to 2700) Based on same trend as middle 1995 onwards 2 at 1 mark	[2]
	(d)		waste and effluents from heavy industries e.g. along Karnaphuli River lower oxygen levels fish and aquatic life die smells from effluents in reservoirs and rivers air pollution – toxic gases examples – 1 mark (e.g. tanneries, fertiiser factories, chemical works, paper mills) 4 at 1 mark	[4]
	(e)		encourage technical education encourage private and foreign initiatives (MNCs) provide industrial loans improve transport and communications research relating to industry infant industry protection Allow elaboration	
			7 at 1 mark Total 25 marks	[7]

5.	(a)	(i)) the number of babies born per 1000 of the population per year				
		(ii)	the number of babies per 1000 who die before their first birthday			[1]	
		(iii)	the difference between birth r	rate and death rate, not inclu	uding migration	[1] [2]	
	(b)	(i)	60+ improved standard of living improved health care improved food/nutrition improved sanitation cleaner water supplies improved living conditions	reserve 1 mark			
			·	3 at 1 mark		[4]	
		(ii)	0-4 family planning programmes education/awareness	reserve 1 mark			
			empowerment of women - ca lower infant mortality - fewer			[4]	
	(c)		money sent back to family relieves population pressure relieves pressure on land/farr brain drain – professionals lea young men leave	ave			
	(d)	(i)	traditional beliefs low social status discrimination early marriages lack of schools	4 at 1 mark		[4]	
			Allow elaboration	4 at 1 mark		[4]	
		(ii)	fewer schools lower skills required in employ	yment			
			Allow elaboration	2 at 1 mark		[2]	
		(iii)	low paid jobs unskilled jobs newer jobs - e.g. IT - require	education			
			Allow elaboration	3 at 1 mark	Total 25 marks	[3]	

Mark allocations in this specimen paper against weightings for Assessment Objectives (AOs)

The allocation of marks across the assessment objectives (AOs) in this specimen paper is shown in the table below:

	AO1	AO2	AO3	Marks
1 a	6	3		9
b		4		6
С	2 5		5	10
2 a		7		7
b	7			7
С			4	4
d	7			7
3 a	2			2
b	5 6			2 5 12
С	6	6		12
d			6	6
4 a	4		4	8
b		4		4
С		2		2
d	4			4
е	5		2	7
5 a	4			4
b		8		8
С			4	4
d	9			9
Total	66	34	25	125
Percentage	52.8%	27.2%	20%	100%

GRADE DESCRIPTIONS

A **Grade A** candidate will be expected to:

- communicate in a clear and coherent manner using appropriate terminology
- · accurately recall, select and deploy relevant knowledge and understanding
- make well-balanced judgements on environmental, developmental or historical issues, by evaluating differing viewpoints and solutions
- demonstrate a thorough understanding of concepts and themes such as interrelationships, cause and consequence, continuity and change and similarity and difference, using accurate and relevant evidence
- accurately comprehend and analyse a variety of historical documents and geographical resources.

A Grade C candidate will be expected to:

- communicate in a coherent manner using appropriate terminology
- recall, select and deploy relevant knowledge and understanding
- make balanced judgements on environmental, developmental or historical issues by recognising differing viewpoints and solutions
- demonstrate an understanding of concepts and themes such as inter-relationships, cause and consequence, continuity and change and similarity and difference, using limited evidence
- comprehend and interpret a variety of historical documents and geographical resources.

A **Grade F** candidate will be expected to:

- communicate in an understandable form, using simple terminology
- · recall a limited amount of accurate and relevant knowledge
- recognise at a basic level the existence of differing values that influence environmental, developmental or historical issues
- demonstrate a basic understanding of concepts and themes such as inter-relationships, cause and consequence, continuity and change and similarity and difference
- comprehend and interpret a variety of historical documents and geographical resources in a limited way.