

MARK SCHEME for the October/November 2007 question paper

0453 DEVELOPMENT STUDIES

0453/02

Paper 2, maximum raw mark 70

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

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.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2007 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0453	02

- 1 (a) (i) The **difference/comparison** between the value of imports and exports/exports minus imports.
NOT balance between imports and exports unless explained
NOT equal amounts of imports and exports unless explained. [1]
- (ii) A negative/unequal balance/unbalanced/deficit. [1]
- (iii) Primary products/raw materials. [1]
- (iv) **Two** reasons: The **value** of the imports is greater than the exports. *Must refer to value.*
It exports primary products which have a low value/ it imports manufactures which are high value.
It needs to import oil because it is not an oil producer and the price of oil is high.
The country is not industrialised/ or is a primary producer. [2]
- (b) (i) Explanation in own words **three** ways:
By selling goods abroad
By providing services abroad (call centres/ power supplies/ financial services etc.)
By earning money from tourists visiting the country
By money sent home by citizens working abroad
By earning money from foreign investment.
NOT money from loans. [3]
- (ii) Paying interest each year on the amount borrowed so that amount increases. 1 mark
And a well explained example. 1 mark
- OR
an explanation or a cycle of debt/ borrowing from IMF/ keeping on borrowing. [2]
- (iii) Description making four points based on the first four boxes at the top of the diagram.
Must be encouraging own citizens.
e.g. Encourage **tourism**
– set up training schemes for guides
– keep cities, parks etc. clean/attractive
– training for hotel trade/waiters etc.
– educate people to appreciate local culture/encourage cultural entertainment etc.
– grants to set up craft industries
– educate through schools/TV about local ecology etc.
– advertising hotels on the inter-net
– devaluation of currency
– e.g. encouraging **exports**
– growth of crops or products for export
– reducing tariffs on exports etc
Similarly encourage services and encouraging remittances from citizens living abroad, etc. [4]

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0453	02

(c) (i) Sub-Saharan Africa. [1]

(ii) 27 [1]

(iii) **Three** reasons: *must imply money/investment difficulties.*

Reserve 1 mark for poverty [P] and 1 mark for economic growth [E]

Most of their money will be spent on reducing debt. [E]

There will be no money to improve medical facilities/import medicines and medical equipment. [P]

There will be no money to spend on education to improve skills/they haven't got skills. [E or P]

Most investment will go towards infrastructure e.g. roads/improved communications/ power/ major projects etc (and cannot be diverted to helping the poor). [E]

Priorities will be for economic growth/ industrial development (and not the relief of poverty). [E and P]

There will not be enough money to improve housing etc. [P]

There will be no money to spend improving food supplies/food production [E or P]

Lack of stable government/corruption/wrong priorities [E and P]

High population growth is swallowing investment. *Population answer must be related to investment.* [E and P] [3]

(d) (i) 1 mark – simple point: with closing of the mines people were not earning so much.
2nd mark –idea of vicious circle of decline
No income -> less money spent-> local businesses couldn't survive -> no income etc. [2]

(ii) **One** reason:
Because of opening up of trade to the outside world/ globalisation/ removing import taxes. [1]

(iii) Description referring to some of the following:
Bad roads
Rubbish
Unemployment
Deterioration in services
Cost of health care
Cost of education
Cut food subsidies
Cut agricultural subsidies. [3]

Page 4	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0453	02

(iv) 4 marks for four points/development points:

EITHER Parents and their farm:

No agricultural subsidies

→ no cheap inputs

→ lower yields

→ less profit

Imported food competing with local produce

More difficult transport because road poor etc.

Distress due to being unable to help family/family can't help them

High cost of medical care

OR Sister and rest of the family:

Husband lost his job

Lost her job because clothing factory closed due to competition

No income for needs

→ have been caught in the poverty cycle

Can't afford health care and drugs for AIDS

→ fees for health care

→ high cost of drugs

Dependent on sister's family to keep her and children.

No money for education/ children not at school.

[4]

(e) (i) \$5.7 **billion** allow 5.5 to 5.8 *Must state **billion***

[1]

(ii) 3.0 allow 2.8 – 3.1

[1]

(iii) Nicaragua 1 mark:

Reasons:

1 mark: Nicaragua's debt is more than three times GNP/ annual income.

1 mark: they can **never get out** of debt/ **mounts** each year

1 mark: a thorough explanation using the data for one country **to illustrate** the impossible amount of outgoings.

Nicaragua's debt is 5.6 – 6.0 and GNP 1.5 – 2.0 difference about 4.0

Not necessary to state \$ or billion.

[4]

Allow MAX 2 for an explanation based on Ghana's data.

1 mark Ghana's debt is more than its GNP/ annual income.

1 mark Ghana's debt is 7.0 – 7.3 and GNP 5.5 – 5.8 difference about 1.5

[Total: 35]

Page 5	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0453	02

(2) (a) (i) Sustainable development/sustainability. [1]

(ii) **Three** ways:

1 mark each for example and 1 mark explanation of damage to environment

for food production → depletes soil fertility/salination/soil erosion

by using fresh water → depleting water supplies/pollutes/effects river ecosystems etc.

for energy production → uses up fossil fuels or non/renewable resources

for mining → using up minerals/non-renewable resources etc.

by using trees → deforestation

by fishing → effects marine and river ecosystems

by hunting → leads to animal extinction

Other examples will be acceptable.

[6]

(iii) **Two** effects described: *can be copied*

Unable to rid world of poverty

Unable to rid world of hunger

Unable to rid world of disease

Risk sudden changes in the world's life-support systems/global warming

Loss of plant/animal/complex ecosystems/resource systems

[2]

(b) (i) 14.55°C allow 14.65 to 14.60 *Must state °C*

[1]

(ii) 1977–78

[1]

(iii) 0.6°C

[1]

(iv) Description of the changes since 1900.

Reference to general trend upwards

1 mark (without dates or figure)

Reference to fluctuation

1 mark

Details of changes giving figures and years

1 mark.

OR

1900–1938 below average

1939–1970's fluctuates

1980 onwards above average

[3]

(c) (i) Asia

[1]

(ii) North America

[1]

(iii) *2 marks: Explanation of difficulties: either referring to both Europe and SA or using a comparative word to imply difference.*

Europe produces more emissions from industry and less from land use changes/

South America uses less emissions from industry but also a great deal more land use changes.

2 marks for two reasons:

South America is not as industrialised as Europe is very industrialised *Not just not as developed*

South America has faster growing populations than Europe

South America has still a great deal of virgin forest/ Europe has largely cut down its forests.

South America is improving the standard of living of its populations and Europe already has higher standards of living.

South America is clearing land for agriculture (*Not just has a lot of agriculture*)

[4]

Page 6	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0453	02

(d) (i) Argentina. [1]

(ii) *Description of general trend 1 mark:*

As GNP per head rises so do CO₂ emissions/positive relationship.

2nd mark for:

One set of correct data e.g. U.S. : 39–41, 19–21

or referring to anomalies.

[2]

(iii) **Three** ways that **industrialised** countries could cut:

Energy saving programmes

Increasing the price/taxing of fuel/petrol

Recycling

Lowering central heating

Not using cars so much etc.

Using alternative fuels

Laws/fines for penalising large emitters

Reafforestation

Many answers possible

Not reduce industry/build elsewhere

Not stop deforestation.

[3]

(e) (i) 12.0 – 14.0 **million** hectares. [1]

(ii) Explanation of difficulties:

High extra cost of power saving

Wood is an important export

Need for land for agriculture.

Need to industrialise/modernise rapidly

Rapid growth of populations need land

Political difficulties – need to please population etc.

Need for wood for fuel

Need for wood for building/furniture/infrastructures

[3]

(iii) A government programme to preserve the tropical forest:

4 points:

Insistence on replanting when trees removed

Government laws to prevent illegal logging/ punishment etc

Creation of National Parks

Encouragement of eco-tourism/ protection of endangered species etc.

Prevention of export of logs/wood except under licence

Provisions of alternative sources of fuel for indigenous populations etc.

Limited usage of forest land e.g. hunting/ tourism/infrastructure

Educational programmes

Not family planning programmes

[4]

[Total: 35]