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International General Certificate of Secondary Education

MARK SCHEME for the November 2005 question paper

0680 ENVIRONMENTAL MANAGEMENT

0680/01

Paper 1 (Alternative to Coursework), maximum mark 60

This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which Examiners were initially instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began. Any substantial changes to the mark scheme that arose from these discussions will be recorded in the published Report on the Examination.

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.

The minimum marks in these components needed for various grades were previously published with these mark schemes, but are now instead included in the Report on the Examination for this session.

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

CIE is publishing the mark schemes for the November 2005 question papers for most IGCSE and GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

| | | | Mary Mary | |
|--------|-----|-----------------------------|--|--------------------|
| Page 1 | | 1 | Mark Scheme Syllabu r | |
| 1 | (a) | (i) | Mark Scheme Syllabu IGCSE – NOVEMBER 2005 0680 Sub-Saharan Africa 0680 Direct relationship or described (either way round) Middle East OR South East Asia birth rate: death rate: infant mortality: calorie intake: car/other 'luxury 'item ownership: | X 11 |
| | () | ., | Direct relationship or described (either way round) | |
| | | . , | Middle East OR South East Asia | CO2. |
| | (b) | (i) | birth rate; death rate; infant mortality; calorie intake; car/other 'luxury 'item ownership; people per doctor; access to clean water; child literacy or equivalent (ignore direction all cases); | |
| | | | quality of life reduced (or a relevant example given); because of more mouths to feed/overcrowding/lack of housing/less jobs OR quality of life increased (or a relevant example given); because increased demand stimulating production! helps if country is underpopulated etc. | [2] |
| | (c) | The and Crea rich(| likely approach is that present world trade conditions are unfair to developing countrie that a liberalisation/freeing up of trade is like to level up the playing field. dit examples: er) should pay higher/fairer price to poor(er); for goods/services; to increase/wealth e of answers generally to get max 1 | |
| 2 | (a) | ., | 4 correct for 2, 2/3 correct for 1, 1 or 0 correct, 0 Do not need shading if right way round, but if not which is which must be made clear i some way | n [2] |
| | | (ii) | Better access in urban areas/vice versa for 1; | [1] |
| | | | More finance/money in urban/urban more developed/more people; Rich people in urban help to ensure clean water; OR | |
| | | | Answer in terms of height of bars rural vs urban; Further detail from graph (e.g. correct figures or derived figures (e.g. 'more than doubl quoted | le') [2] |
| | (b) | | y common diseases are water-borne; ect eg; | |
| | | salm | nonella/diarrhoea/cholera/dysentery/typhoid/ alaria/dengue/bilharzias other water bred diseases | [2] |
| | (c) | | eased awareness/education; so people do not contaminate; with human/human create te controls on pollution; e.g.s; development | d |
| | | boili | ng water; kills germs; avoids disease | |
| | | purif | ying; boiling; filtering; kills germs; avoids disease | |
| | | Villa | ge pump; pipes; clean water | |
| | | Mon | ey; for dams or similar; pipe clean water | |
| | | exar | ST develop one strategy, but this can be interpreted at different levels as shown in the nples above, e.g boiling can be a strategy and then developed as shown but purifying also be and then filtering and boiling are the development | [3] |

| | | | 42 | 4 |
|---|------|---|--|---------------------------|
| | Page | 2 | Mark Scheme Syllabu | · A |
| | | | IGCSE – NOVEMBER 2005 0680 | 1020 |
| 3 | (a) | | near/north of etc. but NOT on/equator; near/on tropics; inland/non coaccoast; deserts/savanna/desert edge/semi desert; any 2 | A. Papacannun astal/aw |
| | | (ii) | January heavy rain; washes soil away | 973 |
| | | | July soil dry; high winds blow away; | [3] |
| | (b) | min | ruse of the land/overgrazing/overstocking/deforestation/loss of erals/ploughing/monoculture/using artificial fertilisers; vant explanation | [2] |
| | (c) | wou roo con ben croj ben gra: | nting shelter belts of trees between fields; ald have the effect of reducing the force of the wind; as of the trees would hold the soil together tour ploughing; efit;; o rotation; efit;; zing rotation; efit;; | [3] |
| 4 | (a) | (i) | A Photosynthesis | |
| • | (4) | (•) | B Respiration | [2] |
| | (b) | (i) | It would increase/rise etc. owtte | [1] |
| | | (ii) | world temps would rise; carbon dioxide traps heat/long wave radiation/greenhouse effect sea level would rise/coastal flooding ® flooding unqualified; ice caps melting/expansion of water | [4] |
| | (c) | | itat loss/food shortage/reduced diversity (or equiv.)/reduced abundanc anting/afforestation ideas; | ce for [1] |
| | | set | rcropping type ideas; up parks/conservation areas etc. any 2 for ansion of any one can also get 3rd mark | [2] |
| 5 | (a) | (i) | crust; mantle; core | [3] |
| | | (ii) | crust/A | [1] |
| | | (iii) | ANY two correct forallow fossil fuel derived fuels (petrol, diesel etc.) |) [1] |
| | (b) | (i) | acid rain; one relevant effect, or smog; effect, or land degradation in getting fuel; effect habitat loss; development, or oil click: effects, or | |
| | | | oil slick; effects, or health; development or | [2] |

| Page 3 | | 3 | | ⁺k Scheme | Syllabu Syllabu | | |
|--------|-----|---|--|------------------------|---------------------------------|-----|--|
| | | | IGCSE – N | IOVEMBER 2005 | 0680 | | |
| | | (ii) | geothermal; hot water used to heat hor cold water pumped down generate steam; turns turbine; generates electricity; pylons carry same; | • | Syllabu 0680 Question to | [3] | |
| | (a) | hote san tree | eatened mangrove/wetland els built; d quarried from the beache es felled; les levelled; | | | | |
| | | sew | vage discharge ; struction of habitat/fragile e | eoclogy | | [3] | |
| | (b) | (i) | The practice of touring na impact; benefit local econ | | er meant to minimise ecological | [2] | |
| | | (ii) | creation of National Parks creation of wildlife reserve make wildlife (owtte) the r | es; | | [2] | |
| | (c) | WWF money raising; education; awareness; influence govts; protection of qualified (e.g endangered) wildlife/animals/habitats etc. | | | | | |
| | | IUCN Collation of knowledge; publication of threatened species lists; influence governme | | | | | |
| | | CIT Cor | ES htrols trade between nation | ns; of animals; plants | | | |
| | | UNEP | | | | | |
| | | Asl | UCN | | | | |
| | | Ma | y accept similar points to W | WWF for IUCN or UNEP b | ut CITES more specific. | [3] | |