UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2011 question paper

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for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/13

Paper 1, maximum raw mark 60

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, which would have considered the acceptability of alternative answers.

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

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



| Page 2 | | | | Mark Scheme: Teachers' version | Syllabus | Paper | | | |
|--------|-----|-------|---|--|-----------------|-------------------------------|--|--|--|
| | | | | IGCSE – October/November 2011 0680 | | | | | |
| 1 | (a) | (i) | oxyg | [1] | | | | | |
| | | (ii) | wate | er vapour; | | [1] | | | |
| | (b) | (i) | pern | max [1] | | | | | |
| | | (ii) | burn give whic ref g | max [3] | | | | | |
| | | (iii) | use light: with | n off /use alt energy max [2] | | | | | |
| | | (iv) | inab | ility to produce enough food/drought/floods/heat v | vave deaths/AVP | ;; max [2] | | | |
| | | | | | | [Total: 10] | | | |
| 2 | (a) | (i) | A; | | | [1] | | | |
| | | (ii) | mos | ses and lichens; | | [1] | | | |
| | | (iii) | mos plan shru trees soil l later (con | | max [4] | | | | |
| | | (iv) | they | both need the same resource/named resource; | | [1] | | | |
| | (b) | | loss extir colla | tat loss; of food supply; action; apse of food chain; aversity loss; | | max [3] [Total: 10] | | | |

| | Page 3 | | | | | | | | abus | Paper | | | | |
|---|--|---|-------------------|---------|-------|---------|---------|---------|---------|-------|--|----|----|-------------|
| | | | | IG | CSE | – Oct | ober/N | loven | 1ber 20 |)11 | | 06 | 80 | 13 |
| 3 | (a) (i) | 66(%); | | | | | | [1 | | | | | | |
| | (ii) | correct plotting (ecf); | | | | | | | | | | | | |
| | | % of total; Central and South America; | | | | | | | [3 | | | | | |
| | (iii) | Disadvs: can control price/make it expensive/lead to tension/war; | | | | | | | | | | | | |
| | () | Advs: infrastructure needed fewer times, saves money; | | | | | | | | [2 | | | | |
| | (b) (i) | 18%; | | | | | | | | [1 | | | | |
| | (ii) | availability locally/pollution laws/; | | | | | | | [1 | | | | | |
| | (iii) | wind/HEP/geothermal/tidal/wave/biomass/nuclear AVP;; | | | | | | | | [2 | | | | |
| | | | | Ū | | | | | | | | | | [Total: 10] |
| | | | | | | | | | | | | | | |
| 4 | (a) (i) | | | | | | | | | | | | | |
| | | | ding to to we | | | | nere; | | | | | | | [2 |
| | (ii) | | warm | • | | | no); | | | | | | | |
| | | supp | porting | g dat | a quo | oted; | | | | | | | | [2 |
| | (iii) | | rm wa ytoplar | | | less r | nutrien | ts/mii | nerals; | | | | | |
| | | less | s food | l for f | īsh; | | | | | | | | | |
| | | | o less 1 die/r | | | e to th | nese fa | actors; | | | | | | max [3 |
| | | | | | | | | | | | | | | |
| | (b) measure wind speed/direction and air/ocean temperature;; main factors involved in El Niño; | | | | | | [3 | | | | | | | |
| | | | | | | | | | | | | | | [Total: 10] |
| | | | | | | | | | | | | | | - |

| | Page 4 | 1 | Mark Scheme: Teachers' version | Syllabus | Paper |
|---|---------|--------|---|------------|-------------|
| | | | IGCSE – October/November 2011 | 0680 | 13 |
| 5 | (a) (i) | | t/sun(light); | | |
| | | carb | oon dioxide; | | [2] |
| | (ii) | phot | tosynthesis; | | [1] |
| | (iii) | irriga | ation/named kind; | | [1] |
| | (b) (i) | | ng period; | | |
| | | | l little or no rain; n area where rain is usually more frequent; | | max [2] |
| | (ii) | | wer not bath; | | |
| | | | d rather than machine wash; not allow taps to run; | | |
| | | | er garden with collected rainwater; air leaks; | | |
| | | AVP | | | max [2] |
| | (iii) | char | rge more; | | |
| | () | insta | all meters; | | |
| | | AVP | l with wastage; c; | | max [2] |
| | | | | | [Total: 10] |
| | | | | | |
| 6 | (a) (i) | Mido | dle East; | | [1] |
| | (ii) | USA | A (or Europe); | | [1] |
| | (iii) | | 9.4+25.2)–(25.4) =119.2 MT; | | 101 |
| | | [Allo | ow 2 marks for correct result. 'Show working' not ask | [2] | |
| | (iv) | no, ł | because it is all found N of equator except some Asi | a/Pacific; | [1] |
| | (b) (i) | | ause they only get a small fraction of the final costs; example of what else cost goes on; | | |
| | | beca | ause of price fluctuations in cost; | | |
| | | but r | rise in production; | | max [2] |
| | (ii) | | lequate energy supply to run factory; | | |
| | | | of skilled labour to make products; of money to make products; | | max [3] |
| | | | · · | | [Total: 10] |
| | | | | | |