UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

0680 ENVIRONMENTAL MANAGEMENT

0680/11 Paper 1, maximum raw mark 60

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UNIVERSITY of CAMBRIDGE
International Examinations

1 (a) (i) long lag;
sudden increase; [2]
(R) straight line of any sort that goes beyond about 1950
ignore levelling off

(ii) 1 **C**;
2 **A**;
3 **B**;
4 **D**; [4]

(b) (i) poor / no hospitals / doctors / ;
excellent hospitals / doctors [2]

(ii) bright lights; excitement; better wages; more jobs; better education;
better employment conditions;
NOTE Must have a qualification where noted [2]

2 (a) (i) krill; squid; [2]

(ii) krill OR phytoplankton; [1]

(iii) leopard seal; elephant seal; squid; other birds; [3]
4 for 3
2–3 for 2
1 for 1

(b) (i) 20 × 5000; = 100 000 units; [2]

(ii) bio control; e.g. (such as predators / parasites or GM methods);
physical barrier; e.g. of what barrier keeps out; [2]

3 (a) (i) **A** crust / lithosphere;
B mantle;
C core; [3]

(ii) igneous;
(accumulation of) small rock particles / sediments / shells / organic matter;
R sedimentation
limestone / clay / sandstone / coal / avp
slate / marble / avp; [4]

(b) (i) accurate plots;; [2]

(ii) silver; [1]

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4 (a) (i) state of the atmosphere / troposphere;
plus example pressure / temp / precipitation / rainfall / wind / sun; [2]

(ii) any 2 of above with correct explanations e.g.
barometer; detail;
thermometer; detail (e.g. screen etc.);
rain gauge; detail;
anemometer; detail; placement R wind gauge
sunshine recorder; detail any two max [4]

(b) (i) correctly plotted points;; [2]

(ii) savannah; wet season, but always warm to hot; [2]

5 (a) (i) air air 19–20
shipping 9–10 [2]

(ii) add nutrients; stimulate algal growth; dead bodies; decompose
deplete oxygen; fish death; eutrophication; [4]

(b) (i) seas linked to each other; currents move pollutants [2]

(ii) preventing:
double hulls / pipelines; [1]

(iii) dealing:
booms / detergent / skimmers / burn off; [1]

6 (a) (i) amount of energy / power / heat received on a surface / incoming solar radiation; [1]

(ii) 342 – 242 = 100 units more;
$\frac{100}{242} \times 100 = 41.3$ %; ((A) 41 but not 42) [2]
242

(iii) nearness to coast / water body / (warm / cold) currents (large lake); amount of snow; altitude; cloud cover; winds if say where from; [2]

(b) (i) fossil fuels pollute; e.g.;
fossil fuels running out / limited;
fossil fuels non renewable;
3 marks for three bit can have one development mark with any.
can award converse in any case [3]

(ii) HEP / geothermal / wave / wind / tidal / nuclear / biogas;
relevant development; [2]

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