



General Certificate of Secondary Education

Science Double Award Modular 3468

Chemistry A 3423

Module 06: Earth Materials

Module Test Answer Keys

March 2007 examination series

Mark schemes are prepared by the Principal Examiner and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation meeting attended by all examiners and is the scheme which was used by them in this examination. The standardisation meeting ensures that the mark scheme covers the candidates' responses to questions and that every examiner understands and applies it in the same correct way. As preparation for the standardisation meeting each examiner analyses a number of candidates' scripts: alternative answers not already covered by the mark scheme are discussed at the meeting and legislated for. If, after this meeting, examiners encounter unusual answers which have not been discussed at the meeting they are required to refer these to the Principal Examiner.

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Earth Materials : Foundation Tier

Question No.	KEY
One	1 – almost all 2 – small amounts of 3 – four fifths 4 – one fifth
Two	1 – soda 2 – hydrocarbon 3 – quicklime 4 – water
Three	1 – vapour 2 – catalyst 3 – fuel 4 – plastic
Four	1 – fine sandstone with fossils 2 – limestone with fossils 3 – shale with layers 4 – coarse sandstone with ripple marks
Five	1 – oxidised 2 – vaporised 3 – biodegraded 4 – neutralised
Six	these three gases are oxides when oil burns, the carbon it contains reacts with oxygen
Seven	P Q
Eight	8.1 – B, 8.2 – A, 8.3 – D, 8.4 – D
Nine	9.1 – A, 9.2 – D, 9.3 – D, 9.4 – D
Ten	10.1 – D, 10.2 – A, 10.3 – B, 10.4 – C

Earth Materials : Higher Tier

Question No.	KEY
One	1 – oxidised 2 – vaporised 3 – biodegraded 4 – neutralised
Two	1 – methane (CH ₄) 2 – ethene (C ₂ H ₄) 3 – nitrogen (N ₂) 4 – carbon dioxide (CO ₂)
Three	P Q
Four	W X
Five	5.1 – B, 5.2 – A, 5.3 – D, 5.4 – D
Six	6.1 – A, 6.2 – D, 6.3 – D, 6.4 – D
Seven	7.1 – D, 7.2 – A, 7.3 – B, 7.4 – C
Eight	8.1 – A, 8.2 – C, 8.3 – D, 8.4 – B
Nine	9.1 – D, 9.2 – B, 9.3 – C, 9.4 – B
Ten	10.1 – D, 10.2 – B, 10.3 – A, 10.4 – D