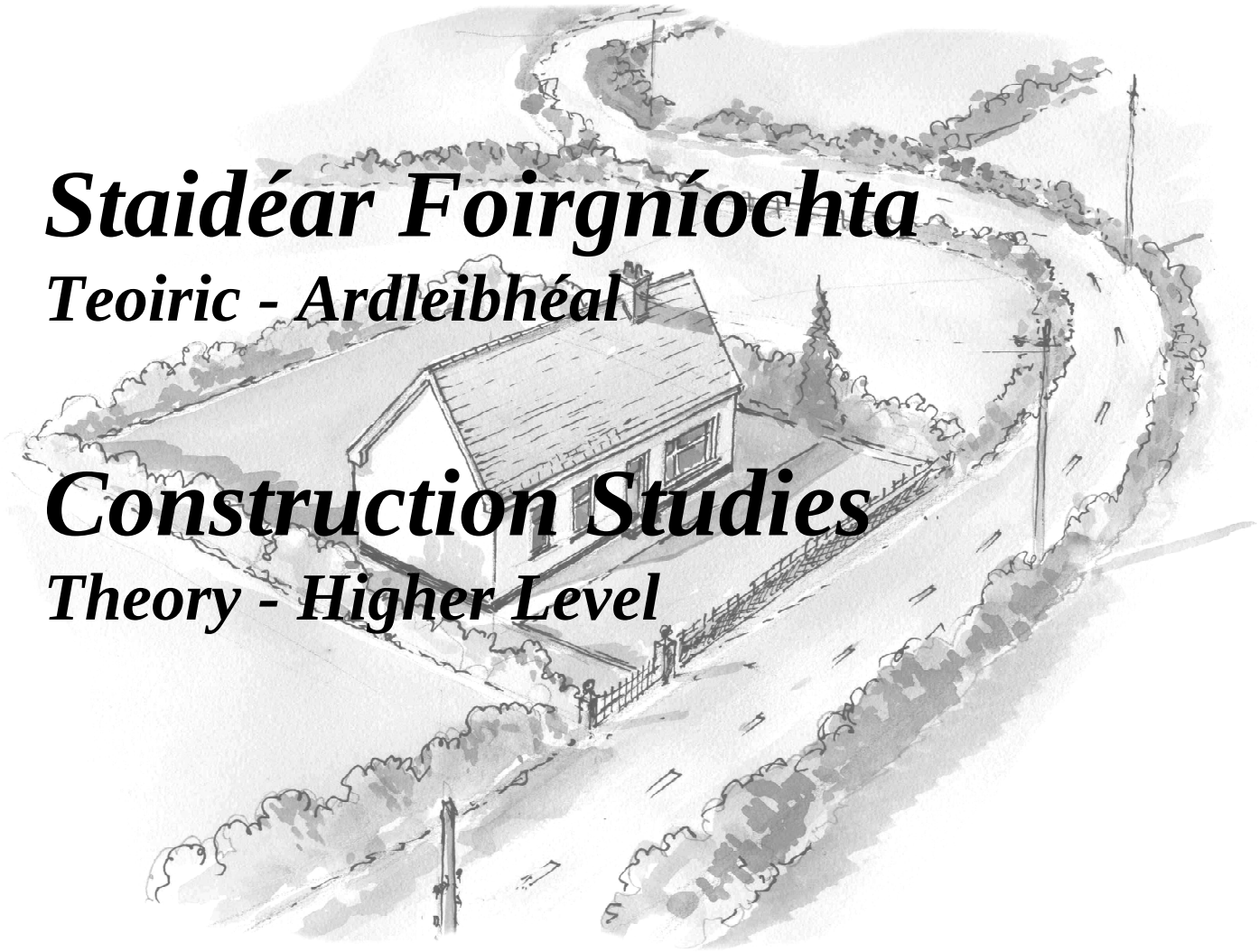
AN ROINN OIDEACHAIS AGUS EOLAÍOCHTA
LEAVING CERTIFICATE EXAMINATION, 2002



Staidéar Foirgníochta
Teoiric - Ardleibhéal

Construction Studies
Theory - Higher Level

SCÉIM MHARCÁLA
MARKING SCHEME

CEIST 1

PERFORMANCE CRITERIA	MAXIMUM MARK
Reinforced concrete strip foundation correctly shown	**6**
Correct depth of trench correctly shown (graphically or otherwise)	**6**
Cavity wall, cavity fill correctly shown	**6**
Cavity insulation correctly shown	**6**
DPC in cavity wall correctly shown	**6**
Fireback correctly shown	**6**
Fireplace lintel correctly shown	**6**
Flue gathering correctly shown	**6**
Flue liner correctly shown	**6**
Fill to flue liner & fireback correctly shown	**6**
Hardcore & deadwork for chimney breast correctly shown	**6**
DPM & underfloor insulation correctly shown	**6**
Concrete floor correctly shown	**6**
External rendering and internal plastering to wall correctly shown	**6**
Design detail No. 1 correctly shown	**6**
Design detail No. 2 correctly shown	**6**
TOTAL *Maximum of 8* ***x 6marks*** *each out of first 14,* ***5 marks for drawing + 1 for annotation*** *in each case.* *Maximum of 6* ***marks for each of 2 applicable design details*** *correctly and accurately indicated on drawing.*	**60**

CEIST 2

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
Citing of inadequate insulation/ Description of Cold Bridge	**6**
Sketch of Cold Bridge or Note describing insulation of head, jamb and cill	**6**
Sketch of insulation (at head or jamb or cill)	**6**
(b)	
Reason 1	**7**
Reason 2	**7**
Note on Method No. 1	**7**
Sketch of Method No. 1	**7**
Note on Method No. 2	**7**
Sketch of Method No. 2	**7**
TOTAL	**60**

CEIST 3

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
Strength Property No. 1	**6**
Strength Property No. 2	**6**
Design consideration 1, to prevent deterioration over time	**6**
Design consideration 2, to prevent deterioration over time	**6**
(b)	
Note Describing Method No. 1 Sketch of Method No. 1	**6** **6**
Note describing Method No. 2 Sketch of Method No. 2	**6** **6**
(c)	
*(**2** advantages x 6 **marks** each)*	
Advantage, Method 1 (Relevance and clarity)	**6**
Advantage, Method 2 (Relevance and clarity)	**6**
TOTAL	**60**

CEIST 4

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
Correct Tabulation	**3**
Ext. Surface Resistance + Int. Surface Resistance + Cavity	**3**
6 lines of calculations **x 3 marks**	**3**
	3
	3
	3
	3
	3
(b)	
*(**4 lines** of calculations **x 3 marks**)*	
Proposed extension Wall	**3**
Additional Resistance	**3**
Resistance of Exp. Stated formula	**3**
T (thickness of insulation required)	**3**
(c)	
Note describing Method No. 1	**6**
Sketch of Method No. 1	**6**
Note describing Method No. 2	**6**
Sketch of Method No. 2	**6**
TOTAL	**60**

CEIST 5

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
Detailed discussion of consideration No. 1	**6**
Detailed discussion of consideration No. 2	**6**
Detailed discussion of consideration No. 3	**6**
(b)	
Dimensioned Sketch 1	**8**
Relevant Notes	**8**
Dimensioned Sketch 2	**8**
Relevant Notes	**8**
(c)	
Reason 1	**5**
Reason 2	**5**
TOTAL	**60**

CEIST 6

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
(i) Definition of Mass	**6**
Discussion of Mass	**6**
(ii) Definition of Completeness	**6**
Discussion of Completeness	**6**
(iii) Definition of Isolation	**6**
Discussion of Isolation	**6**
(b)	
Note of Detail No. 1	**6**
Sketch of Detail No. 1	**6**
Note of Detail No. 2	**6**
Sketch of Detail No. 2	**6**
TOTAL	**60**

CEIST 7

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
Environmental Consideration 1 Statement / Discussion	**10**
Environmental Consideration 2 Statement / Discussion	**10**
Environmental Consideration 3 Statement / Discussion	**10**
(b)	
Explanation No. 1 Sketch No. 1	**5** **5**
Explanation No. 2 Sketch No. 2	**5** **5**
Explanation No. 3 Sketch No. 3	**5** **5**
(or other relevant points)	
TOTAL	**60**

CEIST 8

	PERFORMANCE CRITERIA	MAXIMUM MARK
(a)		
(i)	***5 marks*** *each for all* ***4*** *of the following correctly shown:*	
	Decking, Counter battens, drip batten/aluminium	**5**
	Fascia, Soffit, Gutter, Ventilation	**5**
	Wall Plate, D.P.C, Tie Down Straps, Wall Ties	**5**
	300 Cavity wall, Insulation, Rendering, Plastering	**5**
(ii)	***5 marks*** *each for* ***4*** *of the following correctly shown:*	
	Lead Flashing, Fillet, Solar Reflective Coating/Chips	**5**
	Covering Felt/Butyl Rubber, Firring Piece, Overhang	**5**
	225x50 Joists, @ 400 c/c, Steel Straps Hangers/Timber bolted to wall/built-in	**5**
	Vapour Barrier, Plaster Board, Skim, Insulation	**5**
(b)		
(i)	Condensation – Ventilation	**5**
	Accept sketch of design detail	**5**
(ii)	Decay, note & sketch	**5**
	Sketch of design detail	**5**
TOTAL		**60**

CEIST 9

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
Studs @ 400 cts, noggings Sketch, **4 marks** Note, **4 marks**	**8**
Sole pieces, DPC Sketch, **4 marks** Note, **4 marks**	**8**
Headpieces Sketch, **4 marks** Note, **4 marks**	**8**
(b)	
Studs at door Sketch, **3 marks** Note, **3 marks**	**6**
Lintel/studs over door Sketch, **3 marks** Note, **3 marks**	**6**
(c)	
Advantage No. 1 Relevance, **3 marks** Quality of discussion, **3 marks**	**6**
Advantage No. 2 Relevance, **3 marks** Quality of discussion, **3 marks**	**6**
Disadvantage No. 1 Relevance, **3 marks** Quality of discussion, **3 marks**	**6**
Disadvantage No. 2 Relevance, **3 marks** Quality of discussion, **3 marks**	**6**
TOTAL	**60**

CEIST 10

PERFORMANCE CRITERIA	MAXIMUM MARK
*Any **6 points** or other relevant points clearly stated and **supported by discussion**.* *(**5 marks** for each point stated and **5 marks** for each discussion to a maximum of 60 marks)*	
Point No. 1 (Statement **5 marks**, Discussion **5 marks**)	**10**
Point No. 2 (Statement **5 marks**, Discussion **5 marks**)	**10**
Point No. 3 (Statement **5 marks**, Discussion **5 marks**)	**10**
Point No. 4 (Statement **5 marks**, Discussion **5 marks**)	**10**
Point No. 5 (Statement **5 marks**, Discussion **5 marks**)	**10**
Point No. 6 (Statement **5 marks**, Discussion **5 marks**)	**10**
TOTAL	**60**

CEIST 10 (ALTERNATIVE)

PERFORMANCE CRITERIA	MAXIMUM MARK
(a)	
(i) ***3*** *well discussed* ***points in favour of building*** *(marks based on the relevance and cogency of the arguments)*	
Argument No. 1	**7**
Argument No. 2	**7**
Argument No. 3	**7**
(i) ***3*** *well discussed* ***points in opposition to building*** *(marks based on the relevance and cogency of the arguments)*	
Argument No. 1	**7**
Argument No. 2	**7**
Argument No. 3	**7**
(b)	
Planning Guideline 1	**6**
Planning Guideline 2	**6**
Planning Guideline 3	**6**
TOTAL	**60**