



Design and Communication Graphics

Student Assignment—Higher Level

Assessment Sheet

Candidate Exam No.

Part (A) – 100 Marks			
Output	Marking criteria	Marks	
1	Design Research - Exploration of main design features using primary & secondary research; Selection of appropriate graphics; Effective layout and presentation of information combining images, sketches & annotations		
	a) All relevant criteria considered - excellent presentation	13 - 15	
	b) Most relevant criteria considered - very good presentation	10 - 12	
	c) Some relevant criteria considered - good presentation	7 - 9	
	d) Limited criteria considered - fair presentation	4 - 6	
	e) At least one criterion considered - poor presentation	0 - 3	
2	Design Feature Comparison - Selection of two appropriate images; Main dimensions inserted; Comparison of main design features; Contrasting of main design features; Effective layout and presentation of information combining images, sketches & annotations		
	a) All relevant criteria considered - excellent presentation	13 - 15	
	b) Most relevant criteria considered - very good presentation	10 - 12	
	c) Some relevant criteria considered - good presentation	7 - 9	
	d) Limited criteria considered - fair presentation	4 - 6	
	e) At least one criterion considered - poor presentation	0 - 3	
3	Freehand Graphical Representation – Proportion; Form/Volume; Use of Tone/Line for effective rendering; Detailed treatment of main design features; Layout and presentation		
	a) All relevant criteria considered - excellent presentation	17 - 20	
	b) Most relevant criteria considered - very good presentation	13 - 16	
	c) Some relevant criteria considered - good presentation	9 - 12	
	d) Limited criteria considered - fair presentation	5 - 8	
	e) At least one criterion considered - poor presentation	0 - 4	
4	SolidWorks Parts, Assembly and eDrawing		
	• Minimum of 5 parts	5	
	• Part models – Proficiency in Parametric CAD, including economy of design and design intent; Selection of most appropriate profile; Sketches fully defined; All features renamed; Use of linked values/equations where appropriate; Appropriate type of extrusions used; Appropriate End Conditions used	10	
	• Assembly - Accuracy of parts to facilitate correct assembly, Correct mating of parts, Application of materials/textures/colour	5	
	• eDrawing of CAD model	5	
5	Hardcopy outputs from SolidWorks - Detailed orthographic views of the selected artefact; Section and Detail views where appropriate; Rendered pictorial view of the Assembly; Exploded view of the CAD model; Inclusion of main dimensions, notes and symbols; Layout and presentation		
	a) All relevant criteria considered - excellent presentation	13 - 15	
	b) Most relevant criteria considered - very good presentation	10 - 12	
	c) Some relevant criteria considered - good presentation	7 - 9	
	d) Limited criteria considered - fair presentation	4 - 6	
	e) At least one criterion considered - poor presentation	0 - 3	
6	Photorealistic Image		
	Produce a photorealistic computer generated image of the artefact	10	
Part (B) – 60 Marks			
7	Graphical exploration of design solutions - Exploration of theme/ possible solution(s); Justification of chosen solution(s); Use of appropriate images/graphics; Effective layout and presentation of information combining images, sketches & annotations		
	a) All relevant criteria considered - excellent presentation	21 - 25	
	b) Most relevant criteria considered - very good presentation	16 - 20	
	c) Some relevant criteria considered - good presentation	11 - 15	
	d) Limited criteria considered - fair presentation	6 - 10	
	e) At least one criterion considered - poor presentation	0 - 5	
8	Presentation of Modification/Concept Design – Proportion; Form/Volume; Use of Tone/Line for effective rendering; Detailed treatment of modified/concept design features; Layout and presentation		
	a) All relevant criteria considered - excellent presentation	9 - 10	
	b) Most relevant criteria considered - very good presentation	7 - 8	
	c) Some relevant criteria considered - good presentation	5 - 6	
	d) Limited criteria considered - fair presentation	3 - 4	
	e) At least one criterion considered - poor presentation	0 - 2	
9	Hardcopy outputs from SolidWorks - Detailed orthographic views of the proposed solution; Section and Detail views where appropriate; Rendered pictorial view of the CAD model; Inclusion of main dimensions, notes and symbols; Layout and presentation		
	a) All relevant criteria considered - excellent presentation	21 - 25	
	b) Most relevant criteria considered - very good presentation	16 - 20	
	c) Some relevant criteria considered - good presentation	11 - 15	
	d) Limited criteria considered - fair presentation	6 - 10	
	e) At least one criterion considered - poor presentation	0 - 5	
Total			



Design and Communication Graphics

Student Assignment - Ordinary Level

Assessment Sheet

Candidate Exam No.

Part (A) – 110 Marks		
Output	Marking criteria	Marks
1	Design Research - Exploration of main design features using primary & secondary research; Selection of appropriate graphics; Effective layout and presentation of information combining images, sketches & annotations	
	a) All relevant criteria considered - excellent presentation	13 - 15
	b) Most relevant criteria considered - very good presentation	10 - 12
	c) Some relevant criteria considered - good presentation	7 - 9
	d) Limited criteria considered - fair presentation	4 - 6
	e) At least one criterion considered - poor presentation	0 - 3
2	Design Feature Comparison - Selection of two appropriate images; Main dimensions inserted; Comparison of main design features; Contrasting of main design features; Effective layout and presentation of information combining images, sketches & annotations	
	a) All relevant criteria considered - excellent presentation	13 - 15
	b) Most relevant criteria considered - very good presentation	10 - 12
	c) Some relevant criteria considered - good presentation	7 - 9
	d) Limited criteria considered - fair presentation	4 - 6
	e) At least one criterion considered - poor presentation	0 - 3
3	Freehand Graphical Representation – Proportion; Form/Volume; Use of Tone/Line for effective rendering; Detailed treatment of main design features; Presentation	
	a) All relevant criteria considered - excellent presentation	17 - 20
	b) Most relevant criteria considered - very good presentation	13 - 16
	c) Some relevant criteria considered - good presentation	9 - 12
	d) Limited criteria considered - fair presentation	5 - 8
	e) At least one criterion considered - poor presentation	0 - 4
4	SolidWorks Parts, Assembly and eDrawing	
	• Minimum of 3 parts	6
	• Part models - Proficiency in Parametric CAD; Selection of most appropriate profile; Sketches fully defined; All features renamed; Appropriate type of extrusions used	12
	• Assembly - Accuracy of parts to facilitate correct assembly, Correct mating of parts, Application of materials/textures/colour	6
	• eDrawing of CAD model	6
5	Hardcopy outputs from SolidWorks - Detailed orthographic views of the Assembly; Rendered pictorial view of the Assembly; Exploded view of the CAD model; Inclusion of main dimensions; Presentation	
	a) All relevant criteria considered - excellent presentation	17 - 20
	b) Most relevant criteria considered - very good presentation	13 - 16
	c) Some relevant criteria considered - good presentation	9 - 12
	d) Limited criteria considered - fair presentation	5 - 8
	e) At least one criterion considered - poor presentation	0 - 4
6	Photorealistic Image	
	Produce a photorealistic computer generated image of the artefact	10
Part (B) – 50 Marks		
7	Graphical exploration of design solutions - Exploration of theme/ possible solution(s); Justification of chosen solution(s); Use of appropriate images/graphics; Effective layout and presentation of information combining images, sketches & annotations	
	a) All relevant criteria considered - excellent presentation	17 - 20
	b) Most relevant criteria considered - very good presentation	13 - 16
	c) Some relevant criteria considered - good presentation	9 - 12
	d) Limited criteria considered - fair presentation	5 - 8
	e) At least one criterion considered - poor presentation	0 - 4
8	Presentation of Modification/Concept Design – Proportion, Form/Volume, Use of Tone/Line for effective rendering, Detailed treatment of modified/concept design features; Presentation	
	a) All relevant criteria considered - excellent presentation	9 - 10
	b) Most relevant criteria considered - very good presentation	7 - 8
	c) Some relevant criteria considered - good presentation	5 - 6
	d) Limited criteria considered - fair presentation	3 - 4
	e) At least one criterion considered - poor presentation	0 - 2
9	Hardcopy outputs from SolidWorks - Detailed orthographic views of the proposed solution; Rendered pictorial view of the CAD model, Inclusion of main dimensions; Presentation	
	a) All relevant criteria considered - excellent presentation	17 - 20
	b) Most relevant criteria considered - very good presentation	13 - 16
	c) Some relevant criteria considered - good presentation	9 - 12
	d) Limited criteria considered - fair presentation	5 - 8
	e) At least one criterion considered - poor presentation	0 - 4
Total		