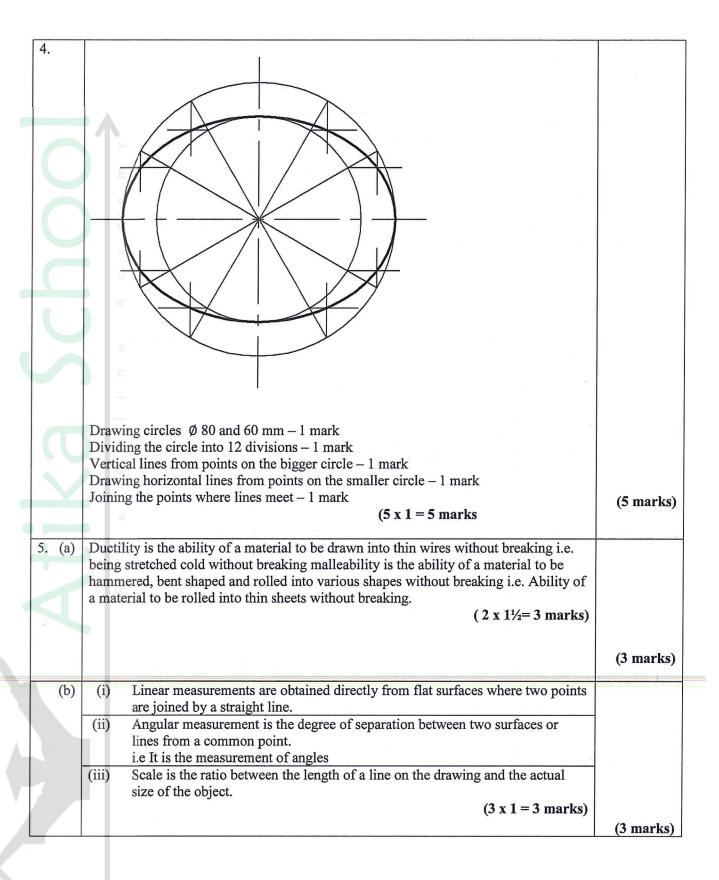
4.21 DRAWING AND DESIGN (449)

4.21.1 Drawing and Design Paper 1 (449/1)

1.	(a)	Technical drawing uses drawing instruments to produce conventional drawings of	
		objects, while artistic drawings are drawn to the impression of the artist, without the	
		use of conventions. Technical drawings are produced to scale using drawing instruments while artistic	
		drawings show philosophical abstract ideas or emotions of the artist.	(2 marks)
			(=)
	(b)	Career opportunities available after studying Drawing and Design:-	
		(i) Manufacturing industry.	
		(ii) Draughtsmanship in designing buildings and structures. (iii) Construction industry.	
_		(iv) Aeronautical Engineering	
		(v) Architecture	
		(vi) Teaching in the technical institutions.	
		Accept any other correct response (Any 2 x 1=	
		2 mark)	(2 mark)
2.	(0)	Descare for using plastics in making set squares	
2.	(a)	Reasons for using plastics in making set squares:-	
		(i) They are light in weight.	
		(ii) Numbers and letters can easily be engraved on them clearly	
		(iii) It can be shaped into various different shapes.	
		(iv) They are durable	
_		(v) They do not rust even when subjected to moisture.	(1 - 1)
		$(Any 2 x \frac{1}{2} = 1 mark)$	(1 mark)
	(b)	Reasons for using block boards in making drawing boards:-	
		(i) They are firm (cannot warp easily), strong & stable	
		(ii) They can easily be worked on with hand tools to give the desired finish	
		(iii) Have a smooth finish.	
		(iv) They provide a larger surface area	
		(v) They have no defects (Any 2 x $\frac{1}{2}$ = 1 mark)	(1 mark)
		(Any 2 x /2- 1 mark)	(1 mark)
3.	(a)	A salary is fixed payment made by an employer often monthly for professional or	
		office work which is taxable, while a wage is payment made in return for work or	
		services by workers at agreed time and is not taxable.	
			(2 marks)
45	(b)	A – Dimension line.	
	` /	B – Extension line/projection line.	
		C – Hidden detail line.	
		D – Centre line.	
A		$(Any 4 x \frac{1}{2} = 2 mark)$	(2 marks)
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		<i>y</i>	
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6.	(a)	Ways of communicating design ideas.	
		- Words/notes	
		- Sketches	
		- Working drawings	
		- Exploded drawings	
		Models or mock-ups/prototypes	
		- Pictures/photographs	
1		- Videos (Any 4 x $\frac{1}{2}$ = 2 marks)	
			(2 marks)
	(b)	Two components used for storing drawings in soft copy:-	
	` _	(i) A flash disc	
		(ii) A compact disc/magnetic tape	
		(iii) A memory card	
		(iv) Magnetic strip	
		(v) CD or flash disk	(1 moules)
		$(Any 2 x \frac{1}{2} = 1 marks)$	(1 marks)

