



Creative Design & Innovation
Grade 10 & 11 General Sample Term 3 - Answer Key

Where student responses may vary please use your professional judgment. Be reasonable and award marks **ONLY** when deserved for answers given.

Marks will be awarded as indicated on the examination paper. Specific mark breakdowns for questions will be written when necessary.

Section 1 – Multiple Choice	
Question	Answer
1	D
2	B
3	C
4	B
5	D
6	A
7	B
8	A
9	C
10	D

Section 2 – True or False	
Question	Answer
1	T
2	F
3	F
4	T
5	T

Section 3 – Core content

Question	Answer
1 – SAQ	Radio / photographic film camera / remote control
2 – SAQ	INPUT – coin slot / press a button PROCESS – A product is selected by the user and picked accordingly. OUTPUT – coins changed / product is dispensed
3 – Matching	C E A D B
4 – Diagram	

5 – Word bank
a – potentiometer / b – buzzer / c – variable / d – light / e – delay / f - signal / g – finite / h - microcontroller

6 – SAQ Both written or drawn answers will be accepted.	Symbol	Name	Symbol	Name
		Start/end		Input/Output
		Arrows		Process
				Decision



7 – SAQ	3 INPUTS – BULB (LAMP or LED) / battery (power source) / switch or push button
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Section 4	
Question	Answer
1 -	<p>1 mark for each correct shape. (6 marks)</p> <p>1 mark for each flowline as listed. (4 marks)</p> <ul style="list-style-type: none"> flowline from the start to the if condition. flowline for Yes part. flowline for No part flowline to indicate where to go after the action (buzzer on & off) has been done.
2 –	LED light / Fan / Relay
3 –	To help identify consequences and responses. To show how a process works.
4 -	<p>Line 1: void loop() Line 6: void loop[] Line 8: int gasSensor==analogRead(0); Line 9: if gasSensor >200</p>
5 –	<p>Line 1: void setup() Line 6: void loop() Line 8: int gasSensor==analogRead(0); Line 9: if (gasSensor >200)</p>
6 –	<p>a. delay(500); b. delay(2000);</p>

