



Computer Science

Grade 11 Sample - Term 1 - 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 (2 marks each)		Section 2 – True or False (1 mark each)				Section 3 – Matching (2 marks each)	
Question	Answer	Question	Answer	Question	Answer	Question	Answer
1	C	1	True	6	False	1	C
2	A	2	True	7	False	2	E
3	B	3	False	8	True	3	A
4	D	4	False	9	True	4	B
5	C	5	True	10	False	5	D

Section 4 – Drawing (10 marks)	
Question	Answer
4a (8 marks)	2 marks – for the flow arrows connecting the controller, plant and a sensor 2 marks – for controller job 2 marks – for plant job 2 marks – for sensor job Answers may vary. Figure on page 2 is provided.
4b (2 marks)	2 marks - for circling closed loop system

Section 5 – Short Answer Questions (10 marks)	
Question	Answer
1a (2 marks)	1 mark for sensor type and 1 mark for the use. Answers may vary. Water sensor is used in modern clothes washing machines for monitoring the water level.
1b (3 marks)	1 mark for each type. Explanation may vary. Keywords to check are in bold. Electrical – powered by motor converts electrical energy into mechanical operations. Hydraulic – uses fluid pressure to perform mechanical movement. Pneumatic – uses compressed air to enable mechanical operations.
2a (1 mark)	Devices have built-in wireless connectivity to connect to the internet . This network build with modern technology is known as Internet of Things Answers may vary. Keywords to check are in bold.
2b (4 marks)	2 marks for Sensors – to measure biometrics like heart rate, movement intensity and energy output. 2 marks for Internet – to allow the device to transmit the data . Answers may vary. Keywords to check are in bold.



Section 4 – Drawing (10 marks)

