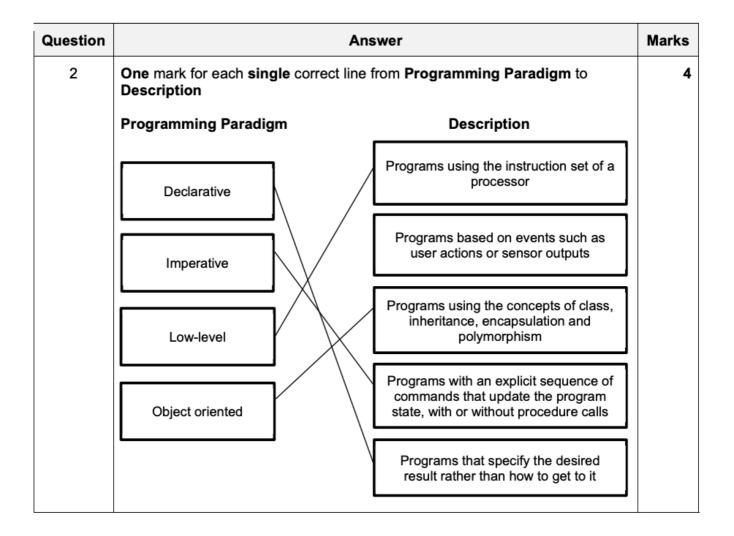
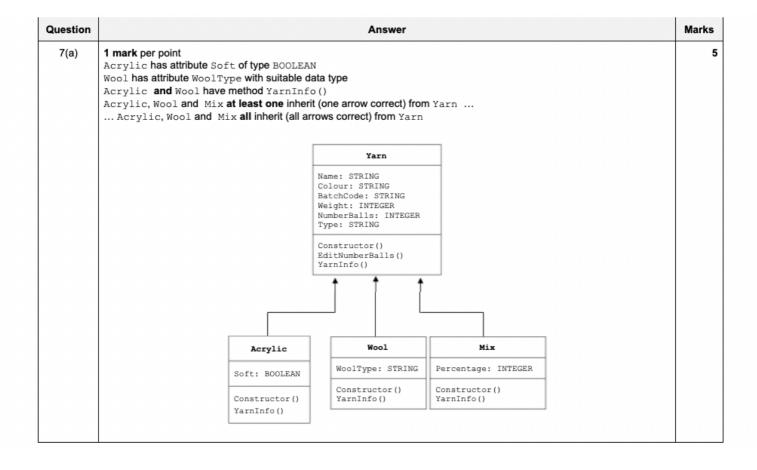
Question	Answer	Marks
9(a)	One mark for each correct marking point (Max 2)	2
	Imperative languages use variables	
	which are changed using (assignment) statements	
	 they rely on a method of repetition / iteration. The statements provide a sequence of commands for the computer to 	
	perform	
	in the order written / given	
	each line of code changes something in the program run.	
9(b)	One mark for each correct marking point (Max 2)	2
	Instructs a program on what needs to be done instead of how to do it	
	using facts and rules	
	using queries to satisfy goals.	
	Can be logical or functional	
	 Logical - states a program as a set of logical relations Functional – constructed by applying functions to arguments / uses a 	
	mathematical style	

Question		Answer	Marks
9(c)	One mark for each correct program	nming paradigm (Max 4)	4
	Program code example	Programming paradigm	
	<pre>male(john). female(ethel). parent(john, ethel).</pre>	Declarative	
	FOR Counter = 1 TO 20 X = X * Counter NEXT Counter	Procedural / imperative	
	Start: LDD Counter INC ACC STO Counter	Low-level / assembly	
	<pre>public class Vehicle { private speed; public Vehicle() { speed = 0; } }</pre>	Object oriented / (OOP)	



Question	Answer	Marks
2(a)	<pre>type(caracal, wild). hair(caracal, short).</pre>	2
2(b)	persian	1
2(c)(i)	type(Pet, domestic).	1
2(c)(ii)	<pre>spots(WildSpotty, yes) ,type(WildSpotty, wild).</pre>	2



Question	Answer	Marks
7(b)	Properties max 2: • the data items / attributes • the data types // characteristics • defined in a class Methods max 2: • the procedures/ functions / programmed instructions in a class / super class / base class • implementing the behaviours • that act on the properties / attributes Inheritance max 2: • Methods and properties / attributes contained in one class/ super class / base class • Are made available to / reused by another class/ derived class	6

Question	Answer	Marks
11(a)	One mark for each correct OOP term definition:	3
	• Instance – an occurrence of an object // a specific object based on the class // an instantiation of a class.	
	Inheritance – the capability of defining a new class of objects that has all the attributes and methods from a parent class.	
	Polymorphism – allows the same method to take on different behaviours depending on which class is instantiated // methods can be redefined for derived classes.	

Question	Answer	Marks
11(b)	One mark for each point:	5
	Car and ENDCLASS	
	 Four declarations – must use the identifiers used in the assignments 	
	Constructor header - must use CarBodyType	
	Two assignments – must use CarMake	
	Constructor identifier for the car model and the identifier in the Model assignment statement match	
	CLASS Car	
	PRIVATE Make : STRING	
	PRIVATE Model : STRING	
	PRIVATE BodyType : STRING PRIVATE Fuel : STRING	
	PRIVATE Fuel : STRING PRIVATE NumberBuilt : INTEGER	
	PUBLIC PROCEDURE NEW (CarMake : STRING,	
	CarModel : STRING, CarBodyType : STRING)	
	Make ← CarMake	
	Model ← CarModel	
	BodyType ← CarBodyType	
	Fuel ← ""	
	NumberBuilt ← 0	
	ENDPROCEDURE	
	getFuel()	
	<pre>getNumberBuilt()</pre>	
	ENDCLASS	