GCSE Computing – A451: Database Test

1. A t	elevision set top be	ox contains a data	base of television ch	annels and pro	grammes.				
(a)	Describe what is meant by a database.								
()	= 2222 22 2, 4 23200 .								
						••••••			
	•••••			• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				
						[2]			
		sion channels are	stored in the CHANI	NEL table. Part	of this table is s	shown			
	below.								
	ChannellD	ChannelName	ChannelType	Broadcaster	HD				
	346	ETV News	News	ETV	False				
	347	Screen One	Movies	ETV	True				
	349	BLING one	General	Bling	True				
	350	Vivo	Documentary	ETV	False				
	351	Nature	Documentary	Bling	False				
	355	Screen One	Movies	Bling	True				
(1.)	0, , ,,		INIEL (LL	•					
(b)	State the primary	key for the CHAI	NNEL table and give	a reason for yo	ur choice				
	Primary Key					[1]			
	Primary Key					[1]			
						[1]			
	Primary Key					[1]			
						[1]			
						[1]			
						[1]			

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(c)	Data about programmes that will be broadcast are stored in the PROGRAMME table. The data about each programme includes the channel on which it would be broadcast.					
	(i)	Explain how a foreign key can be used to connect the PROGRAMME table to the CHANNEL table.				
		[2				
	(ii)	Explain why the programme data is stored in a separate table from the channel data.				
		13				

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the dentist has booked.

patient registers with the dentist.

This can be used to print out all the appointments that

This can be used to enter a patient's details when the

- 2. A dentist uses a database to store the details of patients and their appointments.
 - (a) A database management system (DBMS) is used which includes forms, queries and reports.

Tick one box in each row to show whether each of the following statements best describes a form, a query or a report.

Form

Query

Report

μc	atient registers with the dentist.	<u> </u>					
Th	nis can be used to find out all the appointments that						
а	certain patient has made.						
				[3]			
(b)	When a patient makes an appointment, the start time of the appointment needs to be validated.						
	State two validation checks which can be carried out	on the sta	rt time of the a	ppointment.			
	Check 1						
	Check 2						
				[2]			
				[∠]			
,				_			
((c) Justify the use of separate entities to store the pat	ient and a	ppointment dai	a.			
			• • • • • • • • • • • • • • • • • • • •				

3. A hairdresser uses a relational database to keep records of his clients and their appointments. The hairdresser uses off-the-shelf data-handling software to manage the database.

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(a) Describe how the data-handling software can be used to set up the structure of the database, before any data is added.
[3
(b) State two tasks the hairdresser can perform using the data-handling software, once the database is in use.
1
2
[2