GCSE ICT Unit 1 4331-01

All Candidates' performance across questions

Question Title	N	Mean	S D	Max Mark	F F	Attempt %	
1	13419	2.8	0.7	3	92.1	99.9	
2	13423	4.4	1.1	6	73.3	100	
3	13421	4.1	1.7	8	51.6	100	
4	13420	3.9	0.5	4	96.4	99.9	
5	13418	5.1	2.5	11	46.7	99.9	←
6	13420	3.9	1.4	7	55.4	99.9	
7	13342	2	1.4	4	51.1	99.4	
8	13412	2.9	1.4	5	58.9	99.9	
9	13317	3.2	1.9	8	40.5	99.2	←
10	13412	8.1	2.8	14	57.5	99.9	←
11	12783	5.5	3	10	54.6	95.2	←

GCSE ICT Unit 1 4331-01
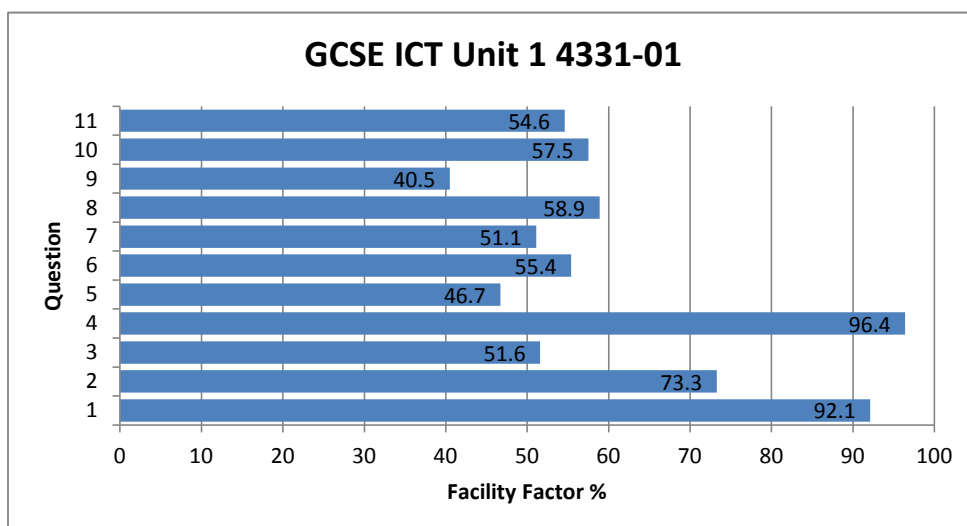
5. A school keeps details of all members of the Student Council in a database. Part of this database is shown below.

Student ID Code	Name	Gender	Year Group	Role
AD1663	Tennant N	M	10	Prefect
AD1607	Pepper T	M	10	House Captain
AD1707	Lewis S	F	11	House Captain
AD1717	Hassan N	M	11	Prefect
AD1729	Davies K	F	11	House Captain
AD1820	Squires A	F	12	Deputy Head Girl
AD1817	Thomas G	M	12	Deputy Head Boy
AD1933	Jones D	F	13	Head Girl
AD1927	Saddiq M	M	13	Head Boy

(a) Identify the *key field*. [1]

(b) State the purpose of the key field. [1]

....

(c) The teacher sorts the database in *descending* order by the **Name** field.

Give the name that would appear at the top of the list. [1]

(g) Complete the table below to show how to find all students who are House Captains in Year 11.

[2]

Field Name	Operator	Search Criteria
Role	=	House captain

AND

Field Name	Operator	Search Criteria
Year Group	=	11

(g) Complete the table below to show how to find all students who are House Captains in Year 11.

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Field Name	Operator	Search Criteria
Role	=	House Captain ✓

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Field Name	Operator	Search Criteria
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(h) Name a validation technique which could be used on the **Student ID Code** field and describe how this could be applied. [2]

The format check can make sure it is set out in the correct format of Letter, Letter, Number, Number, Number, Number.

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Format check, ~~it would~~ we could only enter data that is two letters then four number, if anyone entered something like: 19D84 the system would not allow it.

(h) Name a validation technique which could be used on the **Student ID Code** field and describe how this could be applied. [2]

Format check, ~~It would~~ we could only enter data that is two letters then four number, if anyone entered something like: 19D8+ the system would not allow it.

9. *(a)* *Management Information Systems (MIS) are widely used in schools.*

(i) Give a use for an MIS in a school. [1]

....

(b) There are many different *input devices* and *software* available to support students with disabilities.

(i) List **three** *different* specialist input devices available to support students with disabilities. [3]

....

....

....

(4331-01)

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Monitoring student behaviour, punctuality

(i) List **three** *different* specialist input devices available to support students with disabilities.

[3]

1. Footmouse
2. Braille keyboard
3. Microphone

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1. Footmouse ✓
2. Braille keyboard ✓
3. Microphone ✓

10. Many people use ICT for home entertainment.

    (a)   (i)   Name **two** *input devices* and **one** *output device* used in computer gaming.   [3]

        INPUT DEVICE 1   ....

        INPUT DEVICE 2   ....

        OUTPUT DEVICE 1 ....

        (ii)   Describe **two** *different* benefits of computer gaming.   [2]

        (iii)   Describe **two** *different* health issues associated with computer gaming.   [2]

© WJEC CBAC Ltd.   (4331-01)   **Turn over.**

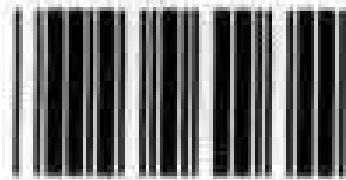(ii) Describe **two** *different* benefits of computer gaming. [2]

One Benefit of computer gaming is that it could the gamer could develop good hand-eye coordination because Some games require quick thinking. Another Benefit is that it could develop good team Skills because Some people games require more than one player.

(ii)   Describe **two** *different* benefits of computer gaming.   [2]

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many things, such as uploading images, playing games and Sharing your status. There are many advantages to users of using Social Networking sites like facebook, for example you can talk to people all around the world and also play games against them. Also you can see what others are up to by liking their photos and status, you can also share links to your favourite websites, and share/upload videos.

There are also a lot of disadvantages to Social networking, one main problem is an increase in cyber bullying, bullies have more access to you and your information, being

with all of your personal details being So open is that pedophiles have easy access

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1 0

11

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Examine only

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b <u>Interactive digital television</u>

Advantage: The red button and interactive services

On televisions shows there is sometimes an option to press a button usually the 'red button' to get access to extras to the television program you will be watching. For example in the 2012 Olympic games there was a red button feature which allowed views watching on their television to be able to select the sports coverage which they want to see. Say by selection tennis on a pop up menu on a television screen the tennis coverage would then start playing. This extra features option is very useful for interactive television as you can get extra coverage switch viewing angles and even play games.

Advantage: Pay to view services

Not all television coverage and shows are free to watch, many services you have to pay for, these services and television shows and movies etc are known as pay to view services. For example on sky tv if a viewer want to watch a new release movie on the box-office channels they have to pay a small fee to view the new film release. This would be a pay to view service. This is useful to the user as heor she can get specialist shows and movies etc quickly and easily by paying with a simple transaction over their television.

Disadvantage: cost to the user and hidden costs

With pay to view services obviously you have to pay, the transaction usually aren't that expensive and range from pennies to a couple of pounds. However these small transactions to tend to add up, without realising it a pay to view customer could be paying much more money than they think, this is bad to the user as they can lose a lot of money. Also there may be hidden costs, by using interactive services the user could be paying when he or she didn't realise, this is bad because if it is a premium channel the user could be paying £3 per

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Furthermore, social networking can be a place where groomers or paedophiles target people. You never know who you are actually talking to which can lead to people meeting up and getting attached.

Moreover, people can use sites like facebook to express personal views. Many people write about their hard days at work but if you write something racist or negative you can be fired or have the police get involved. Slander and abusive language is a problem.

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Two uses of social networking is that it can be used for talking to friends through instant message or used to post photos or videos for friends and family to see. Advantages of this system to the user is that it can be used to speak to long lost friends or family member or even to speak to family or friends who live far away. Disadvantages of social networking could be that some people may use fake identities Another disadvantage could be that if a person was to share personal details then it could lead to cyber bullying or even blackmail. Another advantage of this system is that it can be used on a range of

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11. A school is putting on a play.

Word Processing software is used to create letters that will be sent to parents to inform them of the dates of the production. State **five** *other different* types of software and for **each** software type, describe a *different* example of how the software could be used in organising the play.

[10]

Remember that the quality of written communication will be assessed in this question.

Database software could be used to store that data about people who have purchased tickets, e.g. what their name is, how many tickets they purchased, and for which ~~showperformances~~ performance/date

Spreadsheet software can be used to keep track of/~~more~~ calculate the costs of ~~or costs/profit~~ of things like costumes and lighting, and to calculate the profit they will make after tickets are purchased

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Desktop publishing software ild be used to create a poster or a flyer that could be put up around the school to ~~inform~~ advertise to students and ~~teachers~~ parents of the ~~e~~ upcoming performance.

The school could use a database software to create a database of the students that are taking part. Included in the database would be their name, ~~emer~~ contact number,

would be their name, ~~emer~~ contact number, email address, home address and role in the play. This would be incase a specific person needs informing about a change in script or so that the school has the appropriate information needed about each student incase of an accident or a fire.

Also, the school could use spreadsheet software to keep track of payments. In the spreadsheet, they could keep data of how much income they have made on

how ~~much~~ each night, and compare which night made the most money by creating a graph. Also, with the spreadsheet software, they could work out how much profit or loss they had made from how much income they took against how much money they spent on producing the play.

Another software they could use is presentation software. This could be used to create a presentation that could be shown to the school to encourage students and teachers to get involved through helping out, or auditioning for a role

and teachers to get involved through helping out, or auditioning for a role

The school may also want to use photo editing software this could be used to edit different photos that have been taken of the cast and scenes from the play, that are being put up on the school website, around their school or on a weekly newsletter would be a way to show how much of a success the play was. Also, they could be taken during rehearsals to encourage more people to watch.

END OF PAPER

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Plan:

Presentation software - presentation at end of play.

Database - store details of performers/crew.

Spreadsheet - calculate budget.

Desktop Publisher - produce leaflets

Web authoring software → website advertising play

To * MDatabase soft e (information handling) id be used to help organise the play, it could be used to store the names and contact details of the cast and crew, it could also be used to store the details of the supplier, supplying props for example

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Presentation software could also be used to create a presentation of slides with all the names of the people in the show which could be displayed at the end of the play to show the audience who was in the play.

A Spreadsheet software could also used to help track the budget the show has and to perform calculations to show how much budget is allocated to each department like costumes, props etc.

Desktop publishing software could also be used to produce leaflets about the play and to hand them out at school and within the local community,

Web authoring software could also be used to produce a website about the play and previous plays and the work that has gone into developing it, this will help advertise the play and the s

All these types of software can be used to help effectively organise the school play.

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A database could be used to keep all the parents' contact details and mailing addresses. This would be useful when creating a mail-merged letter.

DTP software ould be used to create posters or flyers for the production. This will be helpful when advertising the play.

A spreadsheet ould be used to calculate all incoming/outgoing money. This is useful for calculating profits/losses from the play.

Photo-editing software can be used to edit/touch up any photos of cast members, etc. This is helpful for if you need any images for the posters/flyers.

A video software ould also be used such as windows movie maker to create a video of all the highlights of the play to give to the play members as a reward for participating.

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The spreadsheet software could display the budget, the
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The presentation could ~~also~~ be uploaded onto the
school website to ~~increa~~ appeal to a wider range
audience. Lastly, I would also use the Musical
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