

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS**  
**GCSE**  
**B061/02**  
**INFORMATION AND COMMUNICATION**  
**TECHNOLOGY**  
**ICT in Today's World**

**WEDNESDAY 17 MAY 2017: Morning**

**DURATION: 1 hour**  
**plus your additional time allowance**

**MODIFIED ENLARGED**

<b>Candidate forename</b>		<b>Candidate surname</b>	
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<b>Centre number</b>						<b>Candidate number</b>				
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**Candidates answer on the Question Paper.**

**OCR SUPPLIED MATERIALS:**

**None**

**OTHER MATERIALS REQUIRED:**

**None**

**READ INSTRUCTIONS OVERLEAF**



## **INSTRUCTIONS TO CANDIDATES**

**Write your name, centre number and candidate number in the boxes on the first page. Please write clearly and in capital letters.**

**Use black ink. HB pencil may be used for graphs and diagrams only.**

**Answer ALL the questions.**

**Read each question carefully. Make sure you know what you have to do before starting your answer.**

**Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).**

## **INFORMATION FOR CANDIDATES**

**The number of marks is given in brackets [ ] at the end of each question or part question.**

**The total number of marks for this paper is 60.**

**Quality of Written Communication will be assessed in questions marked with an asterisk (\*).**

**Any blank pages are indicated.**

**BLANK PAGE**

- 1 A multi-national company has a Voice-over-IP (VoIP) telephone system for use by its employees. FIG. 1 shows a VoIP telephone unit.

FIG. 1

Handset with microphone and speaker



Touch screen

Icons

- (a) Explain why each of the following hardware devices is included as part of the VoIP telephone unit:

(i) Microphone \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ [2]

**(ii) Speaker** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**(iii) Touch screen** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**(b) What is the purpose of an icon?**  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ [2]

**(c) Describe how a VoIP system sends a voice message from one telephone to another.**

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**[3]**

**(d) (i) Describe TWO advantages to the COMPANY of its employees using a VoIP telephone system.**

**1** 

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**2** 

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**[4]**

**(ii) Explain ONE disadvantage to the EMPLOYEES of using a VoIP telephone system.**

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**[2]**

**2 A manufacturing company employs 100 engineers to make parts for machines. Each engineer is required to write down details of each job on a paper job sheet. A database has been created to store the information gathered from the job sheets.**

**(a) Data can be stored in the database in any of the following data types:**

**integer;**

**real number;**

**date;**

**Boolean;**

**text.**

**Complete the table below to identify the MOST appropriate data type for each field in the database. [6]**

<b>Field name</b>	<b>Example data</b>	<b>Data type</b>
<b>Job_number</b>	<b>10998012</b>	
<b>Engineer_family_name</b>	<b>Broonell</b>	
<b>Engineer_first_name</b>	<b>Robert</b>	
<b>Part_ID</b>	<b>PNX299R</b>	
<b>Hours_worked</b>	<b>5.5</b>	
<b>Date_job_completed</b>	<b>22/10/2016</b>	





**Discuss the benefits and drawbacks of having a LAN in a home. [8]**

[illegible]

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- 4 Hilda is a new student and is setting up folders for her files in her storage area on the school network.**

**Explain how Hilda should organise and name her folders to ensure the efficient storage and retrieval of her files.**

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[6]

**5 Malicious software, such as key logging software, can cause problems for users.**

**(a) Explain how key logging software is used to commit fraud.**

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[4]

**(b) Describe ONE way a user could reduce the risks from key logging software on their computer.**

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**[2]**

**6 Prolonged use of computers can cause health problems such as repetitive strain injury (RSI) and eye strain. Taking regular breaks away from the computer is one way that computer users can try to prevent these problems.**

**(a) State ONE other way, apart from taking regular breaks, that a computer user can try to avoid getting RSI.**

\_\_\_\_\_ [1]  
\_\_\_\_\_

**(b) State TWO other ways, apart from taking regular breaks, that a computer user can try to avoid getting EYE STRAIN.**

**1** \_\_\_\_\_  
\_\_\_\_\_  
**2** \_\_\_\_\_  
\_\_\_\_\_  
[2]

**\*7 There are billions of digital devices in use around the world. These devices affect the environment in a range of ways.**

## Discuss the environmental impact of digital devices.

**[8]**

[illegible]

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## **END OF QUESTION PAPER**



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