Please write clearly in block capitals.	
Centre number	Candidate number
Surname	
Forename(s)	
Candidate signature	/

## AS INFORMATION AND COMMUNICATION TECHNOLOGY

Unit 2 Living in the Digital World

Tuesday 14 June 2016 Afternoon Time allowed: 1hour 30 minutes

## Instructions

- Use black ink or black ball-point pen. Use pencil only for drawing.
- Fill in the boxes at the top of this page.
- Answer all questions.
- You must answer the questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- Do all rough work in this book. Cross through any work you do not want to be marked.

## Information

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 80.
- Question 7 should be answered in continuous prose.
- In this question you will be marked on your ability to use good English, organise information clearly and use specialist vocabulary where appropriate.



	Section A				
	Answer <b>all</b> questions in the spaces provided.				
1		Below is a	a list of current legislation and regulations which relate to the use of	ICT.	
		Α	Data Protection Act		
		В	Copyright Designs and Patents Act		
		С	Computer Misuse Act		
		D	Waste Electrical and Electronic Equipment WEEE Directive		
		Е	Freedom of Information Act		
		F	Regulation of Investigatory Powers Act		
			part of the question, write the letter of the legislation that best matc in the box given.	hes the	
		Choose ye	our answer from the list above.		
1	(a)	Makes un	authorised access to computer material illegal.	•• • • •	
		Answer		[1 mark]	
1	(b)	Governs t	he protection of personal data.		
				[1 mark]	
		Answer			
1	(c)	Allows cer	rtain public organisations to monitor people's Internet activities.	[1 mark]	
		Answer			
1	(d)	Makes it i	llegal to use pirated software.		
		Answer		[1 mark]	



Do not write
outside the
box

2	What is ICT?		[4 marks]
		Turn over for the next question	
			Turn over ►

3	(a)	Using an example, define the term data.	[2 marks]



3	(b)	Explain, using examples, how data can arise. [6 marks]
		Turn over for the next question
		III Turn over ►

## Section B

	Section D		
	Answer <b>all</b> questions in the spaces provided.		
4	Discuss the ways that help and support are provided for users of ICT systems. [12 marks]		



# Turn over for the next question



**5** A modern trend is to design ICT systems that can be worn, for example watches, glasses or items of clothing.

Read the article below.

## **Smartwatches**

Smartwatches will be in on the health and fitness tracking game in 2015. Most Google smartwatches have heart rate monitors and the Apple Watch will have one too.

Collecting all that data is useless if users can't do anything with it, though. Google, Microsoft and Apple announced free health-tracking services this year, each aiming to help users understand their health data.

## Smartclothing

Clothing brands such as Adidas, Under Armour and Ralph Lauren, which showed off its new smartshirt at the US Open tennis tournament, are starting to make sports tops with built-in heart-rate and respiration monitoring.

Smartshirts can measure things like heart rate and respiration much more accurately and without having to wear another device, because they can embed more sensors across a larger area.

Smartsocks, motion tracking underwear and light reactive jackets that glow the harder you train are in the pipeline.

Fitness is just one area being explored by smartclothing, with manufacturers envisaging GPS shoes, colour changing ties and smartphone charging jackets.

Even beachwear could go smart with bracelets that track your desired tan level and swimwear that changes colour when you have had enough sun.

All ICT systems require an interface to allow humans to interact with them.

The article above refers to some wearable ICT systems.

Describe the characteristics and requirements of users that need to be considered when designing the interaction between users and these wearable ICT systems.

[10 marks]







6		A family currently has three stand-alone computer systems which they want to connect together to allow access to the Internet and World Wide Web.
6	(a)	Explain, with reasons, what other elements would be needed to achieve this access. [8 marks]

6	(b)	Apart from access to the Internet and World Wide Web, describe further bene the family aculd acia by connecting the stand clane computers together?	efits that
		the family could gain by connecting the stand-alone computers together?	[6 marks]

6	(c)	Explain the need for standards when transferring data across ICT networks	5. [4 marks]
			[]
	2		IB/M/Jun16/INFO2

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6	(d)	Explain the differences between the World Wide Web and the Internet.	[4 marks]
			[+
		Turn over for the next question	

**7** Social Networking sites are widely used by people of all ages for a diverse range of reasons but typically to communicate with each other.

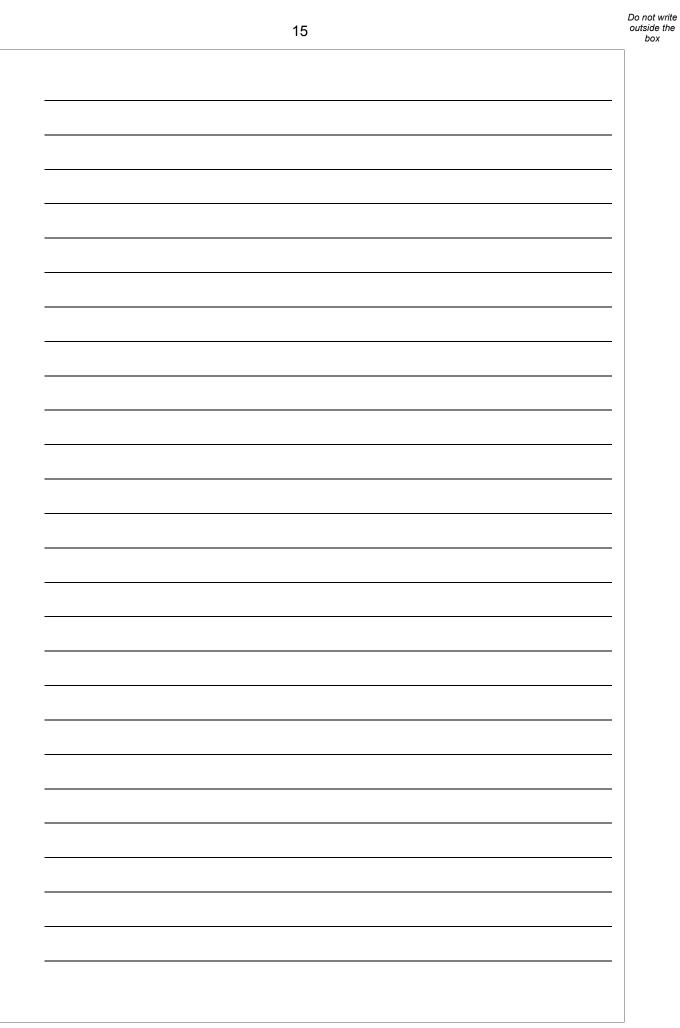
Discuss the consequences, both for individuals and society that have resulted from the use of social networking sites to enable people to communicate with each other.

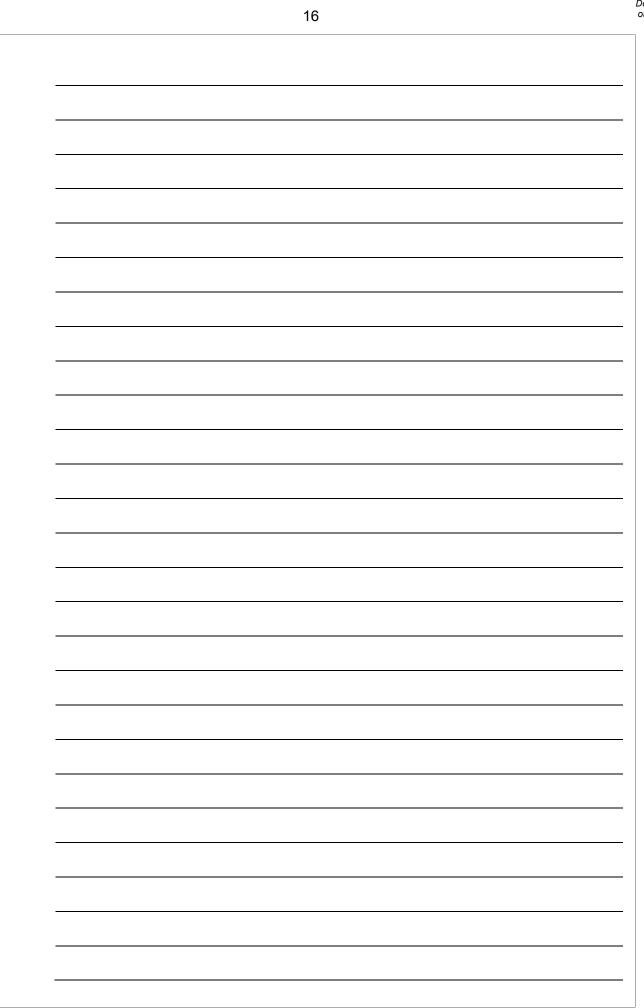
## [20 marks]

In this question you will be marked on your ability to use good English, to organise information clearly and to use specialist vocabulary where appropriate.

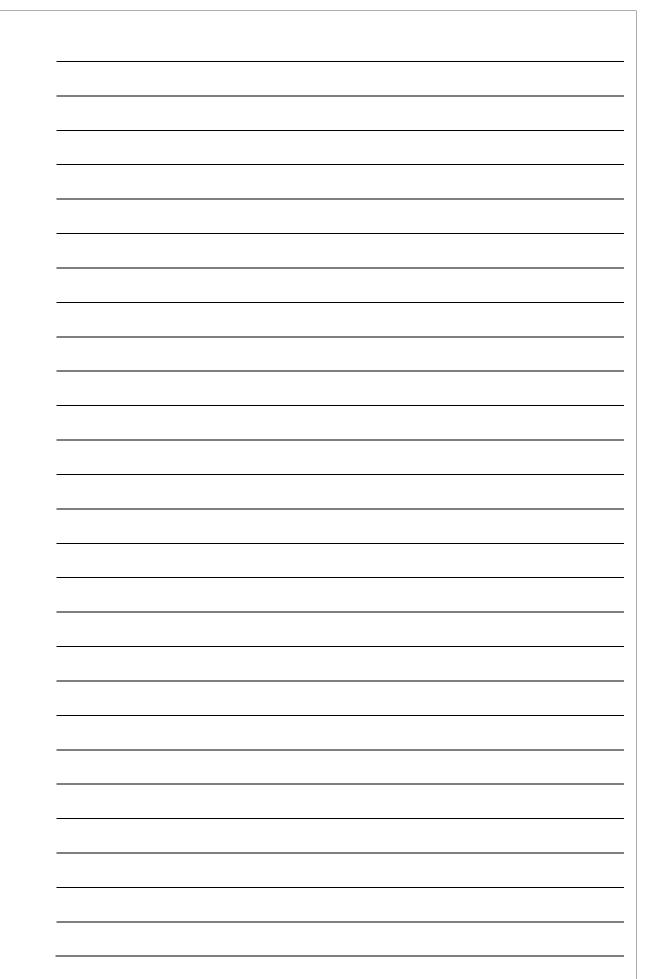
This space is available for planning your answer, if you wish to use it.







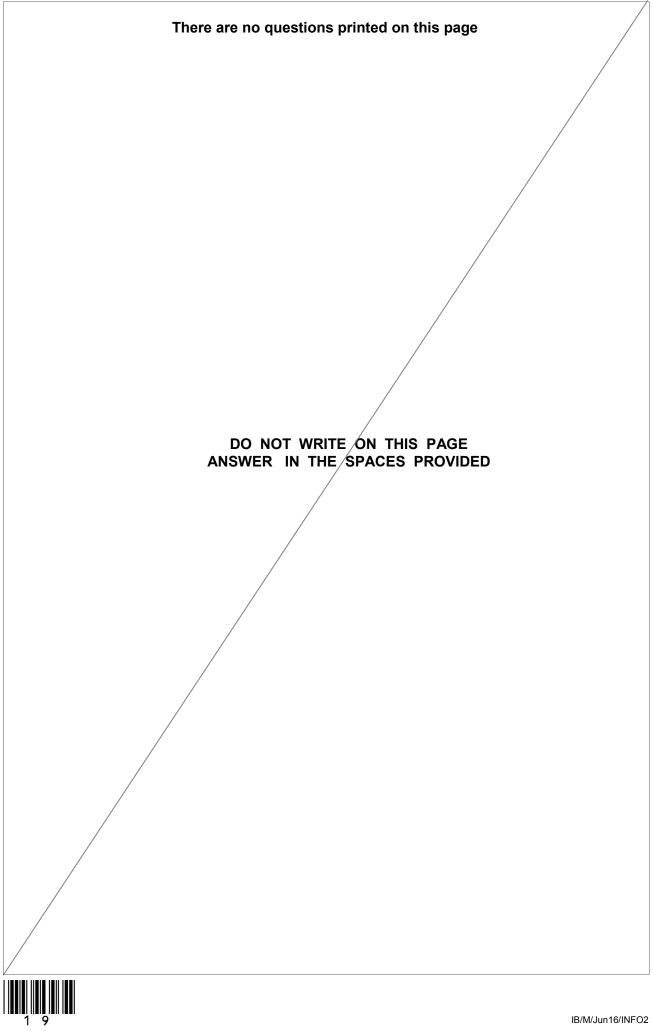


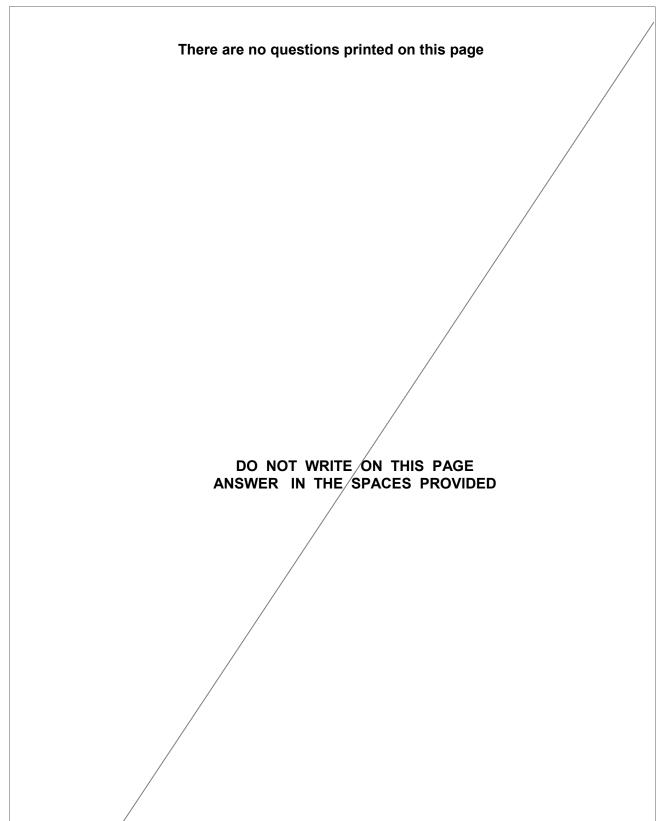




## END OF QUESTIONS







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