Surname	Centre Number	Candidate Number
Other Names		2



### GCE AS/A LEVEL - NEW

2530U10-1



#### **TUESDAY, 21 MAY 2019 - MORNING**

# INFORMATION AND COMMUNICATION TECHNOLOGY – AS unit 1 Information Systems

2 hours 15 minutes

For Exa	aminer's us	e only
Question	Maximum Mark	Mark Awarded
1.	6	
2.	6	
3.	4	
4.	6	
5.	8	
6.	6	
7.	6	
8.	18	
9.	4	
10.	4	
11.	12	
Total	80	

#### **INSTRUCTIONS TO CANDIDATES**

Use black ink or black ball-point pen.

Write your name, centre number and candidate number in the spaces at the top of this page. Answer **all** questions.

Answers should be written in the spaces provided. If you run out of space, use the continuation page at the back of the booklet taking care to number the question(s) correctly.

The intended marks for questions or part-questions are given in brackets [ ]. You are advised to divide your time accordingly. The total number of marks available is 80.

You are reminded of the necessity for good written communication and orderly presentation in your answers.

Quality of written communication will be assessed in question 8.

Make sure you hand in your spreadsheet with this booklet at the end of the examination.

#### **SECTION A**

#### Answer all questions.

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reliable	information are	accuracy and	ves the quality of being understa	of decision makinç andable. Discuss,	g. Two of the fea using example	s, thr
reliable	ood, reliable infor information are a ctors of reliable in	accuracy and	ves the quality of being understa	of decision makinç Indable. Discuss,	g. Two of the fea using example	atures s, <b>thr</b> [3 ×
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		Examii only
metho	le validation methods may be applied to data. In an online banking system many validation ds might be applied to account numbers.  Describe <b>three</b> possible validation methods which could be applied to this data. [3]	6
(6)		
	Describe, giving a reason, the validation method which would be used by banks for this data.  [1]	
Other advan	than accuracy, speed of processing and repetitive processing, describe three different tages of ICT over manual methods of data processing. $[3\times2]$	4)
***************************************		

			Ex
The internet, as a worldwide coractices. Discuss how the use has been of benefit to business	ommunication network ha of internet-based commun and impacted upon workir	is brought many benefits to lication services and storaging practices.	o working e facilities [8]
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Exami	ner
only	/

lescribe two	of these developr	nents.	to fleatificare. Os	[2 × 3]
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- Online gaming can be done as both: 7.

  - Remote gaming Multiplayer gaming.

Discuss these <b>two</b> different types of gaming and the different advantages and disadvantages of each. [6]



(a)	(i)	Explain in detail what is meant by both a barcode and a QR code.	
( • )			
	**********		
	(ii)	Give <b>one</b> advantage and <b>one</b> disadvantage of QR codes.	
		Cive one advantage and one disadvantage of QIV codes.	
	•••••		
(b)	(i)	After an item has been scanned describe the <b>four</b> main stages in the 'Ju automatic stock control system.	ıst in Tir
	•••••		

(ii)	Discuss the advantages and disadvantages that 'Just in Time' stock control offers a company. [4]	
(i)	One of the latest developments in computer based shopping systems is Near-Field Communication (NFC) payment. Explain what is meant by NFC payment. [2]	
(ii)	Give <b>one</b> advantage and <b>one</b> disadvantage of NFC payment. [2]	
	(i)	(i) One of the latest developments in computer based shopping systems is Near-Field Communication (NFC) payment. Explain what is meant by NFC payment. [2]



#### **SECTION B**

#### Answer all questions.

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Cool cook in	for a oproada	book Evaloia wh	at is moont by the	 
			at is meant by the ntage it gives the ເ	seek. [4]



## YOU MUST REFER TO YOUR OWN SPREADSHEET TO ANSWER THE FOLLOWING QUESTION.

## IF NO SPREADSHEET EVIDENCE IS SUBMITTED THEN NO MARKS CAN BE AWARDED.

## MAKE SURE THAT YOU SHOW IN YOUR ANSWER WHERE THE PROCESSES, FUNCTIONS/FORMULAS CAN BE FOUND IN YOUR SPREADSHEET. FOR EXAMPLE PAGE 6 CELL D4.

11.	(a)	Describe the purpose of two	functions from	the list below,	which you have	used in	your
		spreadsheet.				[2	× 2]

	MAX	MIN	AVERAGE	SUM	
		COUNT	RAND		
(b)	Describe the purpose	of the <i>startup u</i>	se <i>r interface</i> you h	nave used in your sp	readsheet. [2]

Des	Describe the purpose of:					
(i)	a sort, you used in your spreadsheet;	[2				
•••••						
(ii)	a search, you used in your spreadsheet;	[2				
*********						
(iii)	a lookup function, you used in your spreadsheet.	[2				
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•••••						
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ENSURE YOU ATTACH THE PRINTOUTS OF YOUR SPREADSHEET TO YOUR EXAMINATION ANSWER PAPER.

**END OF PAPER** 



For continuation only.	Examiner only