DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

FORM 3 Name:	COMPUTER STUDIES	TIME: 1h 30min Class:
Educational Assessment Annual Examinations 1	Unit For Secondary Schools 2010	TATE COL
Department for Curricul	QUALITY AND STANDARDS IN EDUCATIO um Management and eLearning	N THOU

Directions to Candidates:

Answer ALL questions in Section A on this paper; Answer **BOTH** questions from **Section B** on separate foolscaps; The use of flow chart template is permitted; Calculators are **NOT** allowed; Good English and orderly presentation are important.

For office use only:

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	Paper Total	Course Work	Final Mark
Max	5	5	5	5	5	5	5	5	5	5	5	15	15	85%	15%	100%
Mark																

Section A - Answer all Questions

The screenshot below shows part of a **spreadsheet** used in a school to store 1 information on students.

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						•
n A	- Answer	all Que	estions			
	hot below she	ows part	of a sprea	dsheet use	d in a sch	ool to sto
tion	on students.					
	А	В	С	D	Е	F
1		Maths	English	Maltese		
2	Joanne	67	77	88		
3	Peter	54	90	88		
4	Loretta	76	65	54		
5	Victor	88	73	76		
6	Isabel	90	63	91		
7	Matthew	81	66	52		
8						
9						
10	Total					
11	Average					
12	Maximum	=Max(E	32:B7)			
13	Minimum					
14						
15						

Use the spreadsheet to answer the following questions.

- What **formula/function** should be used in B10 to find the **total**? i.
- ii. Using cell references only, what formula/function should be used in B11 to find the average?
- What would be the **result** of the formula in cell B12? iii.
- iv. Another way to interpret data is by charts. Sketch and name a suitable chart for such data.

i.	
ii.	
iii.	

	1 st Differ	ancas				GB	M	В	KB			M. or the size of
-	1 Differ		•									
	2 nd Differ	ence	:									
-	Unit used	l :										
)	One suburi.			CPU i					it?			
	ii.			the su						for?		
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	Used for:											
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	Example	of A	nalo	gue:								
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[5]

[5]

[5]

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i.	Braille keyboard:
ii.	Trackball:
iii.	Eye sensor reader:
iv.	Graphics tablet:
v.	Braille printer:
vi.	LCD projector:
vii.	Light pen:
viii.	Touchpad:
ix.	VDU:
х.	Digital camera:

6 State whether the following statements are TRUE or FALSE.

i.	A byte has 8 bits:	
ii.	A floppy disk has a capacity of 1.7MB:	
iii.	A CD holds more information than any pen drive:	
iv.	1 MB is equivalent to 10 ²⁰ bytes:	
v.	1 GB is equivalent to 1024 MB:	

7 Complete the table below to show whether each of the following secondary storage media are: **magnetic**, **optical** or **electronic**.

i.	Compact Disc:	
ii.	Hard Disk:	
iii.	Flash Drive:	
iv.	Floppy Disk:	
v.	DVD:	

[5]

		ole below. OVD dot-matrix printer MICR scanner	e for the tasks given laser printer
	i.	To read data from bank cheques:	<u>-</u>
	ii.	To produce high quality hardcopies:	
		. To backup large amounts of data:	
	iv.	. To produce multiple copies of invoices:	
	v.	To transfer an old photograph into the computer:	
	Forma	at, Scandisk, Defrag (defragmentation) and Winzi	p are four useful
			•
	progra	ms.	
	i.	What are these programs called?	
		What are these programs called ? Which three (from the four) programs mentioned	ed above must be used
	i. ii.	What are these programs called ? Which three (from the four) programs mentione for the tasks given in the table below.	
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	i. ii. iii.	What are these programs called ? Which three (from the four) programs mentione for the tasks given in the table below. Name the program that is used to stop a virus i	
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(a) (b)	i. ii. ii. ii. ii. ii. ii. ii. ii. ii.	What are these programs called? Which three (from the four) programs mentione for the tasks given in the table below. Name the program that is used to stop a virus in the program that is used to stop a virus in the program that is used to stop a virus in the program that is used to stop a virus in the program that is used to stop a virus in the program that is used to stop a virus in the program that is used to stop a virus in the program that are scattered across a hard disk. Compresses files so that they require less storage space. Divides a new hard disk into tracks and sectors so that data may then be stored. What does URL stand for? What is a URL?	nfection.

[4]

[1]

11 Draw the **symbols** and complete the **truth tables** for the OR and the NOT logic gates.

		OR gate	
Symbol:			
Truth table:	A	В	X
	0	0	
	0	1	
	1	0	
	1	1	

NOT gate				
A	X			
0				
1				

(b) **Complete** the following sentence to show the function of the **AND** gate:

The AND gate produces a 1 at the output only if __

Section B – Answer BOTH Questions

12 A database has to be created to maintain patients' information in a hospital. The following table shows the incomplete file specifications.

Field Name	Data Type	Size/Format
Name	Text	15
Surname	Text	15
	Text	
	Text	
	Number	
	Date/Time	
	Yes/No	

(a)	1.	Copy and complete the table above by filling in five more important	
		field names and their size/format according to the given Data Types.	

What difference must there be between a **normal field** and a **key** ii.

iii. From the above specifications table, which field do you suggest as the key field?

[1]

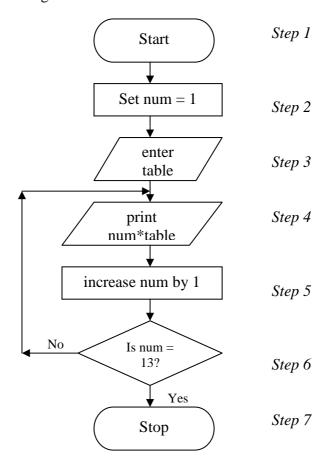
[1]

[5]

- Student Bounty.com One updating task is that of 'editing' a record. Name and explain the two other **updating** tasks to keep the database up-to-date.
- What is a query? ii.
- What is the difference between a **simple** and a **compound** query? iii.
- iv. What is **sorting**?
- Why is it, at times, important to have the **records** in a database sorted? v.

[2]

13 The flowchart below describes a simple algorithm where the user is required to enter a number and then does something with that number. The steps of the algorithm are numbered for reference.



Use the flowchart above to answer the following questions.

i.	Draw the flowchart symbol which represents: a process , a decision	
	and an input/output task.	[3]
ii.	What arithmetic process is being performed in <i>Step 4</i> ?	[1]
iii.	What arithmetic process is being performed in <i>Step 5</i> ?	[1]
iv.	How many times <i>Steps 4</i> and 5 are being repeated?	[2]
v.	If the user enters the number 2 (represented by 'table' in <i>Step 3</i>), what	
	will be the output?	[4]
vi.	Briefly explain what the algorithm does.	[4]

