SECONDARY SCHOOL ANNUAL EXAMINATIONS 2009

Directorate for Quality and Standards in Education Educational Assessment Unit

FORM 5 (Option)COMPUTER STUDIES

DNS 2009 TIME: 1 hr 45 min

Name: _____

Class: _____

Directions to Candidates:

Answer ALL questions in Section A on this paper; Answer any TWO 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	14	Paper Total	Course Work	
Max	5	5	5	5	5	5	5	5	5	5	5	15	15	15	85%	15%	100%
Mark																	

	Section A - Answer all Questions
(a)	Section A - Answer all Questions Explain the difference between a standalone computer and a network computer Difference:
b)	LAN and WAN are two types of network systems. What is the main difference between the two types?
	Difference:
)	Mention two advantages and one disadvantage of having a network system rather than standalone computers.
	1 st Adv.:
	2 nd Adv.:
	Disad.:
a)	Which one of the following number systems is typically used to show how computers work? Decimal, Octal, Binary
	Number system:
b)	Convert the Hexadecimal number <i>A2</i> to Binary and then to Decimal . <i>Space for working:</i>
	Binary:
(c)	Decimal:Convert the Binary number <i>10110011</i> to Hexadecimal and then to Decimal. <i>Space for working:</i>

Decimal:

Hex.:

[2]

	STE .	
3 (a)	Why is a secondary storage device an important hardware item with computer Answer:	
	Answer:	4
(b)	Secondary storage devices can be one of three different types. A magnetic device/medium is one type and a floppy disk is an example.i. What are the other two types called?ii. For each type give an example of a device/medium.	
	1 st type:	
	Example:	
	2 nd type:	
	Example:	
(a)	Use two of the following words to complete the two sentences below.	
	source, translator, executable	
	i code is the one that is obeyed by the hardware.	
	ii. A programmer writes code.	
(b)	Assemblers, Compilers and Interpreters are three translators. Give three differences between these translators.	
	Assembler:	
	Compiler:	
	Interpreter:	
	•	
(a)	Use two of the following words to label the two flowchart symbols below.	
	i.	
	ii.	

[2]

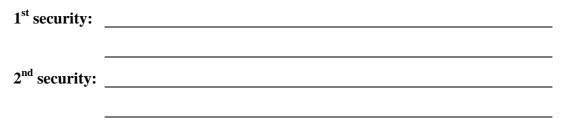
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1. AtBount
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ogic and ove?
[3] r video
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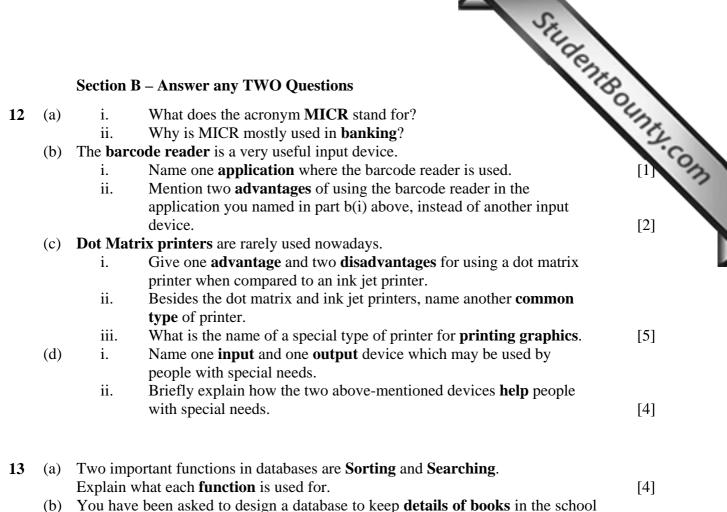
		THE
•	1 st Adv.:	ing.
	2 nd Adv.:	· ·
•	Pagination:	
	Indentation:	
	Type of software:	
)	Complete the two sentences below using two of the following	[5] words:
	input, output, switch	
	i. A logic gate is similar to an electronic	
	ii. All gates have one	
)	Draw the truth table for the logic circuit below:	[2]
	Space for Truth Table:	

9	(a)	Mention two different security measures which may be adopted to protect oneself
		from unauthorized access to data over a network system.



[3]

)	principles of this act.	ed the Data Protectio	n Act. Mention three imp	2			
	1 st Principle:			3			
	2 nd Principle:		n Act. Mention three imp				
		s below, write down the browser, Word proc	e best application to use from the essor, Computer Aided Design eet.	[3			
	Tasks	5	Application				
	i. Designing a kitchen:	—					
	ii. Preparing the school'	s magazine:					
	iii. Typing a letter to you	r friend:					
	iv. Preparing an invoice	for a shop:					
	v. Searching for a produ	ict on the computer:		[:			
	For each of the following IT-related staff, mention one main duty.						
	Programmer:						
	I.T. Trainer:						
	Computer Operator:						
	Web Master:						
	Computer Technician:						
				[5			



library. Copy the **file specifications table** below. Then complete by inserting three other important **field names** together with their **data type** and their **size/format**.

(Besides 'text' you should include at least two other different data types)

Name of Field	Data Type	Size/Format
name	text	50

- (c) What is a key-field? [1]
 (d) Which field from your books' specification table of part (b) above, would you select as key-field? [1]
- 14 (a) Mention three **duties** of the **system analyst**.
 - (b) The librarians of your school asked you as a systems analyst to investigate their manual system and check the possibility to change it to a computerized system. For each of the 6 stages listed below explain what you would do for the case study mentioned:
 - Feasibility study
 - Present system study
 - Design
 - Programming
 - Change over methods
 - System maintenance

[3]

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