## JUNIOR LYCEUM ANNUAL EXAMINATIONS 2002

## Educational Assessment Unit - Education Division

Form 3 Option COMPUTER STUDIES Time: 1	30 hrs
	JU III S.
Name: Class:	
aliek-likont, Presta rad Druttil, a cruz cer cer certari esta in table.	Fig

## 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 flowchart templates is permitted.
Calculators may NOT be used.
Good English and orderly presentation are important.

For office use only:

Q	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Paper Total	Course	Final Mark
Max	5	5	5	5	5	5	5	5	5	5	5	15	15	15	15	85%	15%	100%
Mark																		

Computer Studies F3

Page 1

Page

## Section A - Answer ALL questions.

SOILW	vare progran	n to sc	oive a	specif	ic pro	blem	e de la							
Expla	ain briefly th	e term	ıs in t	oold:										
a) e	electronic:	And something												
b) p	processing: _									e Filifien				
														I
c) p	program:													
														[
Besid	des Input, P	rocess	and	Outpu	ıt, a c	omp	uter c	an p	erfo	rm	oth	er tas	sks (	r
funct	tions. Name	one o	ther t	ask or	function	on ar	nd giv	e a bi	ief (	desc	ript	ion:		
d) F	Function/tasl	k:												
	Description:													
Draw	v a block d	iagrai												
Draw		iagrai is org	anize	d. Lab utput l	el you Device	ır dia	gram conda	with ry (b	the ack	follo -up	owi ) St	ng ter	ms:	
Draw	v a block diputer system CPU, Input	iagrai is org lows b	anize	d. Lab	el you Device	ır dia	gram conda	with ry (b	the ack	follo -up	) St ines	ng ter	ms:	le
Draw	v a block diputer system CPU, Input w how data f	iagrai is org lows b	anize	d. Lab	Device units b	y dr	conda	with ry (b	the	follo ad l	) St ines	ng ter	ms:	
Draw	v a block diputer system CPU, Input w how data f	iagrai is org lows b	anize	d. Lab	Device units b	y dr	conda	with ry (b)	the	folload l	) St ines	ng ter	ms:	le
Draw	v a block diputer system CPU, Input w how data f	iagrai is org lows b	anize	d. Lab	Device units b	y dr	conda	with ry (b)	the	folload l	) St ines	ng ter	ms:	le

	LX	plain briefly the difference between the following terms:
	a)	information and data:
	b)	binary and decimal:
	c)	application program and system program:
	d)	OMR and OCR:
	e)	ROM and RAM:
	Ans	wer the following questions:
	a)	How many bits are there in one byte?
	b)_	How many bytes are there exactly in one kilobyte?
in.		How many bytes are there in one megabyte:
		What unit is used to measure computer memories?
gryk		What is a computer word length?
770	Use	five of the following terms to complete the passage below:
	me les	agnetic picture element more vector raster graphic paint
	A _	device produces output based on simple geometric
5	shap	es while a device produces output based on pixels. A
I	oixe	means which is the smallest unit of
-		display on a VDU. Raster graphics take up
r	nen	ory space.

Page 3

Computer Studies F3

a)	Draw the symbol of the AND, OR and	NOT logic gates:
	AND	R NOT
b)	Fill in the Truth Tables for the AND	and the OR gates:
	A B AAND B 0	
	example:  ii) digital:	
	ii) digital:	
	example:	
b)	What device changes analogue signals	to digital and vice-versa:
Wi	th reference to electronic mail (e-mail),	answer the questions below:
a)	What do you understand by e-mail?	
b)	What is an inbox?	
c)	Why is a password required when acc	essing your e-mail?
d)	Give one advantage of using e-mail ov	
e)	Give one disadvantage that an e-mail s	ystem may have:

9	Use	e the terms below to	identify the diffe	erent roles of perso	ns working at a	
	larg	ge computer centre:				
	C	omputer operator	Information Sy	stems Manager	Data clerk	2 48
	S	ystems analyst	Maintenance E	ngineer		
	a)	Designs and impler	nents a new compu	ıter system:		[1]
	b)	In charge of the wh	ole computer centi	e:		1
	c)	Repairs any compu	ter hardware faults			1
	d)	Enters data from so	urce documents:			1
	e)	Feeds in paper into	printers and switch	nes on/off the compu	ter system:	
						1]
- V						
10	a)	What is an algorith	m?			
						11
	b)	Draw an algorithm	using a flowchart	to input two number	es and output the	1 ]
* = 2		A STATE OF THE PARTY OF THE PAR	ALAST AND ALAST	ace provided below:		47
				ace provided below.	1	4]
Flo	wcha	rt for algorithm:				
						88 
	-3294					
6 7 1			Lings was 1-yests			alch-

Write a program using Pascal to input two integer numbers and output their sum and difference. Section B - Answer any TWO questions on separate foolscaps Answer the following questions with reference to a spreadsheet program. Why is a spreadsheet program more suitable for mathematical calculations than a word processor? Describe briefly two examples for which a spreadsheet may be used. [2] What do you understand by a spreadsheet function? [2] Why is naming a range of cells useful? Give an example of a named range of cells used in a formula. [2] What use is made of a spreadsheet when it is linked to a word processing mail merge operation? What does replicate mean? Why is this useful? A spreadsheet can produce graphs (charts) very easily. Name two types of graphs and draw a simple diagram for each.

[2]

	h)	Explain w	hy using a spreadsheet program is better than using an	
		electronic ca	alculator.	[2]
5,5				
13	The	Internet has	become popular world wide. Answer the following questions	
	rega	arding the Inte	rnet.	
(n) a	a)	What do you	u understand by the term "Internet"?	[1]
	b)		arly the difference between the terms 'browser' and a 'search	
	c)	What is the	difference between uploading a file and downloading a file?	[2]
	ATE .		use of a 'favorites' or 'bookmarks' feature of an Internet	1
		browser?		[2]
	e)	What do the	following abbreviations stand for?	
		i)	URL	
31		ii)	ISP	
		iii)	WWW	[3]
	f)	Why is an IS	SP required for an Internet connection?	[1]
	g)	What is hyp	ertext?	[1]
	h)	Explain one	disadvantage when using the Internet.	[1]
	i)		o examples for which you found the Internet useful.	[2]
4	a)		difference between serial access and direct access.	T11
	b)		ample of an application that is most suitable for:	[1]
		i)	serial access	
		ii)	direct access	[2]
	c)	Draw a diagr	ram to show how data is organized on a magnetic disk. (Use	[2]
			ick and sector).	[2]
	d)		al application for the following devices:	[2]
		i)	Scanner	
		ii)	Bar code reader	
		iii)	Magnetic Ink Character Reader (MICR)	[3]
			-	1

Computer Studies F3

	e)	What is a touch pad? On which type of computer is a touch pad normally found?	[2]
			[~J
	f)	Explain briefly the use of a digital camera and name one typical	[2]
		application for it.	[~]
	-	Give an example of one back-up storage device.	[2]
		Why do we make back-up copies of important data?	
4	h)	Name one device that produces a hard copy.	[1]
15	A w	ord processor program is one of the most widely used applications. It has	
	seve	ral advanced features especially when typing long documents. Answer the	
	follo	owing questions with reference to a word processor. Use diagrams to help	
		in your answers when suitable.	
	a)	Explain carefully the use of Headers and Footers.	[2]
	b)	What are styles?	[2]
E .	c)	A word processor can produce easily a Table of Contents. What is a	
		Table of Contents and why is it useful?	[2]
2	d)	What do you understand by an Index?	[2]
14	e)	Give two advantages of using a Table in a Word Processor.	[2]
	f)		[1]
	g)	Explain how you can do any one of the following features using a word	
		processor with which you are familiar.	
		i) Headers and Footers	
		ii) Styles	
		iii) Index	
		iv) Multicolumns	[2]
		How can a word processor make the work of a school secretary easier?	[2]