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Name:	Index no	
School:	Candidate's sign	
Date:		
451/1		
COMPUTER STUDIES		
PAPER 1 (THEORY)		
TIME 2 ½ HOURS.		

## LANET JOINT EVALUATION(LANJET 2022)

451/1 COMPUTER STUDIES PAPER 1

## INSTRUCTION TO CANDIDATES

- Write your name and index number in the spaces provided above
- This paper consists of <u>Two</u> sections; A and B.
- Answer **ALL** questions in section **A**.
- .Answer question 16(compulsory) and any other THREE questions from section B.
- All answers should be written in the spaces provided on the question paper
- This paper consists of 12 printed pages. Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

## FOR OFFICIAL USE ONLY

SECTION	QUESTIONS	CANDIDATES SCORE
A	1-15	
	16	
	17	
	18	
В	19	
	20	
	TOTAL SCORE	

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Computer Studies Paper 1

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b) State two v	ways such errors can be avoided	(1 mark)	
6. State three editin	g tools that are available in most s	standard word processing	software (3 marks)
	ty should be enforced both physic		off
	etween the two security mechanis	·	s.
			······································
		<u>ct</u> Q°	
h State two phys	ical security techniques	(2 marks)	
		LOSE (2 marks)	
		S.	
8. Explain three types	s of system buses found on the co	mputer system board	(3 marks)
	40//		
9. State the four dis	k management tools found in mos	st operating systems. (3 n	narks)
	ngers associated with the following puters to high humidity	g: (1marks)	
ro 2 of 10	ANIFETAD COLLOOLS	LANIET 2022	Computor Studios Barrer 1
ge <b>3</b> of <b>10</b>	ANESTAR SCHOOLS –	LANJET ZUZZ	Computer Studies Paper 1

ii.	www.freekcsepastpapers.com www.freekcsepast Purchasing software before assessing requirements	tpapers.com www.freekcsepastpapers.com (1marks)
iii.	Using foreign flash disks on the computer.	(1marks)
11. Di	fferentiate between a filter and a query in a database	(1 marks)
	ne payroll system is both a financial system and a hum marks)	com
a.	Explain the importance of the following spreadsheet of Freezing columns (1mark)	200
b.	Data validation (1 mar	k)
14. 1	List two ways in which computer technology can be used to avail the computer technology can be used to avail the computer technology, state two advantages.	
	CTION B (60 MARKS)  uswer question 16(compulsory) and any other THRE	EE auestions from this section.
16. \$	State the stage of program development in which:  A flowchart would be drawn	(4 marks)
 l	The programmer would check whether the program	m does as required
Page <b>4</b> of :	The user guide would be written  ANESTAR SCHOOLS – LA	NJET 2022 Computer Studies Paper 1

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d. The requiremen	ets anacifications would be written	
d. The requiremen	nts specifications would be written	
1) A	1	
	ram design tools to design a program that can list the	ne odd numbers between
0 and 100.	al: 11	(5.1.)
b). (i). Write a pseudo code fo	r this problem.	(5mks)
		on
ii). Draw a flow chart for the	pseudo code in 16 b) (i) above.	(6mks)
	Store	,
	6200	
	LCSO !	
	"SOF	
	in. It	
	nn'	
	at a	
	exams	
iii) Study the follow flowchar	then answer the questions that flow.	(4 marks)
22) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	<b>1</b>	()
	D	
Cu	stomers Products	
Invoice	Create Invoice	
Details	Order Details	
	Customer Invoice	
Page <b>5</b> of <b>10</b>	ANESTAR SCHOOLS – LANJET 2022	Computer Studies Paper 1
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Figure 1	Flowchart2		
			<b>₹</b>
I) N	Jame all the flowchart symbols use	ed in this flowchart.	(4 marks)
Δ	Λ:		
			.00
В	B:	······	(4 marks)
	n. 	Sit	
C	<i>i</i>		
Г	):	VIII	
L	<b>,</b>		
17.	Define the term	OS/C	
	Network topology.	810	(1 mark)
		<i>'</i> 4',	(Timin)
		71	
•••••		···	
h	Clearly illustrate the following	nag of nativiaris tamplaging	(5mkg)
υ.	Clearly illustrate the following ty i. Bus topology	pes of hetwork topologies.	(5mks)
	i. Bus topology		
	Q		
	ii. Mesh topology		
Page 6	of <b>10</b> ANE	STAR SCHOOLS – LANJET 2022	Computer Studies Paper 1

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www.freekcsepastpapers.co	www.freekcsepastpapers.com has been designed it will need to be implemented.	www.freekcsepastpapers.com
	ods of implementation that could be used. 2mks	
(1) 2 0001100 0110 1110111		
•••••		
(ii) Write down <b>tw</b>	o reasons why one of the methods you gave in (b) (i)	is better than the other. (2 marks
( )		(
		·····
a		
(b) After a system is imple: ( <b>2mks</b> )	mented, it is evaluated. Give <b>two</b> reasons why a system	n should be evaluated.
ZIIIKS)		
•••••	<u></u>	
	<u>.</u>	
	- OF	
	KIE	
(c) State one difference be	etween system flowchart and program flowchart.	(2 marks)
	N.	
	······································	
	et	
	owing data processing methods and give an example of	of where they are used.
(6mks)		
i. Online processing		
ii. Batch processing –		
0 0 of 10	ANESTAR SCHOOLS - LANIET 2022	Computer Studies Daner 1

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•••••	•••••		
•••••			
iii. Real-tin	ne-		
(b)	Differentiate between th	e following:	(6mks)
(i) Logical	l file and physical file –		
::) M	. C1 11		.es.
ii). Mastei	r file and back-up file –		<sup>5</sup> ©x
		×0	S
		75.11	
(iii) Randor	n and indexed sequential	file organization methods	
(11) 111111111		100 constant of the constant o	
	•••••	al Kro	
		······································	
An orga	anization is facing threats	to data integrity. Explain <b>three</b> ways ho	ow the threats can be minimized.
(3mks)			
	46		
•••••	•••••		
20. (a)		ata and information in a computer system	n needs to be converted to other numb
systems of	other than binary.	(1mks)	
(b)	Explain one reason for u	use of binary in digital technology.	(1mks)
(0)	Explain one reason for t	or omary in digital technology.	(THIKS)
ge <b>9</b> of <b>10</b>	ANE	ESTAR SCHOOLS – LANJET 2022	Computer Studies Paper 1
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•			
	(c) ii). Using twos complements	nent, workout: $15_{10} - 8_{10}$ in binary	form. (4mks)
(d)	Using BCD coding system conve	rt 796 to binary.	(3mks)
			·s·coir
b). (	Convert each of the following to the	number system indicated:	ers
). 11	$1.101_2$ to decimal;	-sipal	(3 marks)
•			
•		······	
(ii). 1	14.6875 <sub>10</sub> to binary	ns at	[3 marks]
•			
•	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
•	Ko		
•			