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S850/1
SUBSIDIARY ICT
PAPER1
JUNE,2018
2½HRS

NSAMBYAHILLSIDEHIGHSCHOOL

UgandaAdvancedCertificateofEducation
SUBSIDIARYICT
PAPER1
Theory Duration:2hours30minutes

Instructionstocandidates:

☐AttemptALLquestionsinthispaperThepaperismadeupof20equally

weightedstructuredquestionseachquestionweighing5marks

☐Writeyouranswersinthespacesprovided.

☐Noadditionalmaterials(answersheets)willprovided.

FORTEACHERSUSEONLY																				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	TOTAL

1.a)AfterteachingtheconceptofsystemperipheralsteacherSolomonasked
Honesttheclassrepresentativetonametwoexamplesofsystemperipherals.
HonestmentionedakeyboardandamonitorforwhichtheteachersaidNo!!!!Briefly
explainwhyteacherSolomonrefusedHonest'sexamples (2marks)

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b) State three reasons to justify the need for teaching ICT in schools

(3marks)

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2. a) In the teaching and learning processes ICTs can be treated as enablers that can ably enhance teaching and learning. As a student of ICT give two reasons to support this assertion. (2marks)

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b. Assuming that you are a member of the ICT club in your school, briefly show how you would promote green computing in your communities.

(3marks)

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3. The booting process is identified by many activities, light and sounds. As a critical ICT user briefly show the implications of the following;

i) No beeps: (1mark)

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ii) Two beeps or beeps repeating endlessly: (1mark)

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iii) A soft boot. (2marks)

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iv)Lightemittingdiodes: (1mark)

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4.Agoodfileorganisationiskeyinanyfilemanagementofbothphysicalandlogical files.Thiscanincludeallaspectsofhandlingdocumentsinvolvingstorage,retrieval, backups,andsecurityoffiles.AsastudentofICT;
a)Distinguishbetween;

i)Physicalandlogicalfiles (1mark)

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ii)FATandNTFSfilesystems (1mark)

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b)Statetwoconventionsofagoodfileorganisationormanagement(2marks)

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c)Stateoneadvantageofagoodfilemanagementsystem (1mark)

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5.Stateoneinstanceunderwhichyouwoulduseeachoneofthefollowingsystem utilities:
i)Anti-virusutility: (1mark)

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ii)Defragmentingutility: (1mark)

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iii) Cryptographic utility: (1mark)

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iv) Winzip utility: (1mark)

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v) Compilers: (1mark)

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6. Archived files can be characterized by several features. As an ICT student and practitioner;

i) Briefly describe an archived file for clarity of the above statement (1mark)

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ii) State two file attributes of your choice (2marks)

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iii) Give the importance of file extensions in file management (2marks)

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7. a) Briefly show how you would use the following keyboard keys in a real data entry situation;

i) Numlock key (1mark)

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ii) Printscreen key (1mark)

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iii) Home keys: (1mark)

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b) Briefly explain why a mouse would be treated as an input device. (2marks)

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8.Pointingdeviceslikemousepieces,touchpads,joysticksandtrackballsfacelots ofchallengesinthedaytodayoperationsofcomputersystems.

a)Statetwoofsuchchallengesfacingpointingdevices (2marks)

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b)Explainanythreemethodsofsafeguardingdigitalcontentandcomputernetworks (3marks)

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9.   a)AssumingthatoneofyourbestfriendsTiffa,isplanningtoenterintographical designsandanimationsindustry.AsanITliteratefriendadviseheronanythree criticalfactorssheshouldconsiderwhilebuyingthesoftwaretouse. (3marks)

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b)Giveonepracticalsituationwhereonewouldusethefollowingspreadsheet functionsinbusiness;

i)Rankfunction: (1mark)

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ii)Maxfunction: (1mark)

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10. a)TheCentralprocessingunit(CPU)ismadeupoftheControlunit,Arithmeticlogicunit, systemclockandaccumulatorsorregisters.Explainthefunctionofeachoftheelementsof theCPU. (4marks)

Element	Function

Controlunit	
Arithmeticlogicunit	
Systemclock	
Accumulators	

b)Stateoneapproachtoincreasingacomputersdataprocessingspeeds. (1mark)

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11. a)Explainthemeaningofthefollowingconceptsinrelationwithcomputerstorage andmemory

i)Solidstatetechnology: (1marks)

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ii)Opticaltechnology: (1mark)

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b)Explainwhythefollowingshouldnotbedonewhilemanagingstoragemedia;

i.Exposingmagneticmediatomagneticfields (1mark)

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ii.Exposingstoragemediatoexcessiveheat (1mark)

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iii.PocketingofCDsandfloppies; (1mark)

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12. a)Oneofthecriticalfactorsofanysoftwareproductisitsinterface.Asanardentfunof ICTgivetwoexamplesofinterfacesasoftwareproductcanprovidetoitsusers.
(2marks)

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b)Inthetablebelowgiveoneexampleofaspecializedsoftwarethatspeciallyuse eachoftheinterfacesmentionedinquestion12.a)above.(2marks)

Natureofinterface	Softwareproduct

c) Give an example of a device driver needed for effective usage of computerized systems. (1mark)

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13. a) Explain the three career functions of an ICT teacher/instructor.

(3marks)

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b) State two challenges faced by ICT instructors in their attempt to promote ICT knowledge

and skills (2marks)

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14. a) Explain how and when one would use electronic mail account users.

(3marks)

i) CC………………………………………………………………………………………………….

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ii) Compose…………………………………………………………………………………………

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iii) BCC………………………………………………………………………………………………

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b) State two reasons to explain the limited usage of electronic mails in your
community. (2mark)

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15. a) State one situation where one would use the following electronic database features.
i) Enforcement of referential integrity (1mark)

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ii)Creationofrelationships (1mark)

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iii)Creationofqueries: (1mark)

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b)Statetwolimitationsofusingelectronicdatabases (2marks)

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16. a)Brieflyshowwhatyouwouldusethefollowinginternetbasedservices for:
i)Internetrelaychats (1mark)

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 i)

ii)Filetransferprotocol (1mark)

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b)Theinternetismade-upofquiteanumberofservicesrangingfrom
communication,entertainmentandleisure,research,andmoney,financeand
banking,topublishing.AsanICTperson,andmanymoreothers;
Stateanythreeinternetbasedservicesforresearch(3marks)

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17. a)Statetwowaysinwhichastudentwouldusewhatsuptosupporthis/her learning. (2marks)

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b)Giveonecleardifferencebetweenablogandawikiaselectronicdocuments. (1mark)

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c) State two reasons to justify limited internet usage in Uganda. (2marks)

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18. a) State two inbuilt electronic database functions. (2marks)

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b) Briefly explain the meaning of the following database objects.

i) A table (1mark)

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ii) A form (1mark)

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c) State one challenge in using electronic databases. (1mark)

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19. a) Distinguish "crop marks" from "cropping" features of desktop publishing software. (1mark)

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b) Give two publications that can be made with desktop publishing software

(2marks)

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c) State two features of an electronic desktop publishing software interface

(2marks)

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20.a)DistinguishbetweenthefollowingICTsecurityrelatedconcepts;
i)Crackingfromhacking   (1mark)

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ii)Eavesdroppingfromplagiarism   (1mark)

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iii)Trojanhorsefromaworm   (1mark)

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iv)DigitalforensicsfromGraphicsandanimationsdesigning   (1mark)
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b)Softwarepatchfromsoftwarerelease   (1mark)
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END