UGANDA INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY
END OF SEMESTER ONE EXAMINATIONS

ACADEMIC YEAR 2024/2025

DEPARTMENT: ICT

SEMESTER: ONE

PROGRAMME(S): DIPLOMA IN ELECTRONICS COMMUNICATION ENGINEERING (DECE)

YEAR OF STUDY: ONE

COURSE: FUNDAMENTALS OF ICT

COURSE CODE : ICT111

DATE: TUESDAY 17TH DECEMBER, 2024

TIME: 8:00 AM – 11:00 AM

DURATION: 3 HOURS

INSTRUCTIONS:

(i) This paper contains three Sections: A & B(40 marks) & B (60 marks).

(ii) Attempt ALL questions in Sections A and B, and ONLY THREE questions in Section C.

(iii) All questions carry equal marks.

(iv) DO NOT write on this question paper.

(v) Create a folder on the desktop, give it your Name, RegNo and Session where you will save all your work.

Attempt **ALL** the Questions in Sections A and B.

SECTION A [20 MARKS]

Write the correct alternative in the answer booklet provided (1 mark @)

1. The process of producing useful information for the user is called……..
   A. Controlling B. Outputting C. Inputting D. Processing
2. The output unit coverts the data entered by the user into computer understandable form.
   A. True B. False
3. VDU stands for_____
   A. Virtual Display Unit B. Visual Display Unit
   C. Virtual Detection Unit D. Visual Detection Unit
4. What does SVGA stands for?
   A. Standard Visual Graphics Array B. Super Visual Graphics Array
   C. Standard Video Graphics Array D. Super Video Graphics Array
5. The devices that used to give single or multiple-colored images and drawings are
   A. Monitors B. Printers C. Plotters D. VDUs
6. Line Printers that print one line at a time are_____
   A. Laser Printers B. Inkjet Printers
   C. Drum Printers D. Chain Printers
7. A special request originated from some device to the CPU to acquire some of its time is called_____
   A. Disturbance B. Attenuation C. Interrupt D. Noise
8. The 'heart' of the processor which performs many different operations is called _____
   A. Arithmetic and logic unit B. Motherboard
   C. Control Unit D. Memory
9. IEEE stands for_____
   A. Instantaneous Electrical Engineering
   B. Institute of Emerging Electrical Engineers
   C. Institute of Emerging Electronic Engineers
   D. Institute of Electrical and electronics engineers
10. _____ is the raw material used as input and _____ is the processed data obtained as output of data processing.
    A. Data, Information B. Instructions, Program
    B. Data, Program D. Program, Code
11. _____refer to renewing or changing components like increasing the main memory, or hard disk capacities, or adding speakers, or modems, etc.
    A. Grades B. Prosody C. Synthesis D. Upgrades
12. Which of the following is designed to control the operations of a computer?
    A. Application Software B. System Software
    C. Utility Software D. User

13. Which of the following is not an example of system software?
    A. Language Translator B. Utility Software
    C. Communication Software D. Word Processors
14. A person who designs the programs in a software package is called _____:
    A. User B. Software Manager
    C. System Developer D. System Programmer
15. _____ is designed to solve a specific problem or to do a specific task.
    A. Application Software B. System Software
    C. Utility Software D. User
16. Word processing software is not a type of application software
    A. True B. False
17. OSS stands for _____
    A. Open System Service B. Open-Source Software
    C. Open System Software D. Open Synchronized Software
18. Public domain software is usually referred to as _____.
    A. System supported B. Source supported
    C. Community supported D. Programmer supported
19. A set of programs which consists of full documentation is called a _____
    A. Software Package B. System Software
    B. Utility Software D. File package
20. A program that reads each of the instructions in mnemonic form and translates it into the machine-language equivalent is referred to as _____.
    A. Machine language B. Assembler C. Interpreter D. C program

SECTION B

1. Define the terms WWW and Internet **(4 marks)**
2. Give any two components of WWW and two components of the internet **(4 marks)**
3. Define a web browser give two examples of web browsers. **(4 marks)**
4. Define the term cookies **(2 marks)**
5. Explain any three reasons why cookies are important. **(6 marks)**

SECTION C [60 MARKS]

Attempt **ONLY THREE** Questions in this Section.

Question 1

a) Open an appropriate spreadsheet software of your choice and enter the data shown below in the worksheet: Save your worksheet as **marksheet-your registration number**, e.g. Worksheet-2024-DECE-Day-0007 **(5 marks)**

S/N	NAME	SEX	HIST	CRE	GEO	COMP	TOT	AVE
1	Apio Mercy	F	90	54	78	50		

2	Mike Mukua	M	79	53	70	89		
3	Nassazi Grace	F	87	65	69	65		
4	Namukasa Eva	F	76	57	82	45		
5	Asio Jane	F	45	66	55	76		
6	Ocen Joshua	M	76	44	76	87		
7	Apollo Mukama	M	45	60	70	58		
8	Ampeire Martha	F	60	78	87	50		
9	Mukisa John	M	68	45	56	60		
10	Makuru Nickson	M	78	70	80	50		

b) In the TOT column, calculate the TOTAL MARKS of each student. **(2 marks)**

c) In the AVE column, calculate the AVERAGE MARK for each student**.** **(2 marks)**

d) In the cell B11, type the label “Highest Score” and calculate the highest scores per subject. **(1 mark)**

e) In cell B12, type the label “Lowest score” and calculate the lowest scores per subject. **(1 mark)**

f) Insert a suitable title in merged cells for the table in the spreadsheet. **(2 marks)**

g) Insert another column titled REMAKS after AVE **(1 mark)**

h) Given that the Pass mark/cut off point for this class is an average of 62.45%, Use the IF function to assign remarks to all students Below 62.45%, FAIL, those between 62.45% and 65%, PROBATION and those above 65%, PASS in the column REMAKS. **(4 marks)**

i) Sort the table according to average in descending order. **(2 marks)**

Question 2

You have been selected to sensitize the public about the importance of ICT or digital literacy to everyone in day today life.

a) Use presentation software to deliver your presentation with the following content:

i) Slide 1: A presentation title in word art format and you as the presenter. **(4 marks)**

ii) Slide 2: An introduction about ICT. **(2 marks)**

iii) Slide 3: Use bullets to outline at least 5 reasons for digital literacy. **(4 marks)**

iv) Slide 4: Present the table below. **(5 marks)**

Important Digital literacy Modules for different categories of people			
Workforce readiness	Professionals	Beginners	Business Managers
Computer Essentials	Data Analytics	Computer basics	Project Planning
Documents	Documents (Advanced)	The desktop	Documents (Advanced)
Spreadsheets	Spreadsheets (Advanced)	Documents (Introduction)	Spreadsheets (Advanced)
Presentations	Presentations (Advanced)	The Web (Introduction)	Presentations (Advanced)
Cyber security	Financial Spreadsheets	Communication	Financial Spreadsheets
Online Collaboration	Management Spreadsheets		Management Spreadsheets
	Coding Principals		

	Databases		
	Digital Marketing		
	Databases (Advanced)		

(b) Use relevant images and colours to enhance your presentation **(2 marks)**

c) Add a header and footer as your name and your registration number **(2 marks)**

d) Save your presentation as Digital Literacy-Your registration e.g **Digital Literacy-2024-DECE-Day-0007** in your folder on the desktop. **(1 mark)**

Question 3

a) Using a Word Processor of your choice, type the document below using Comic Sans Ms font style. Save it as ReadingLesson1-Your registration number e.g **ReadingLesson1-2024-DECE-Day-0007** in your folder on the desktop. (5 marks)

Jack is a young lad living with his widowed mother. Their only means of income is a cow. When this cow stops giving milk one morning, Jack is sent to the market to sell it. On the way to the market he meets an old man who offers to give him “magic” beans in exchange for the cow.

Jack takes the beans but when he arrives home without any money, his mother becomes angry and throws the beans to the ground and sends Jack to bed without supper.

b) Copy all the text and paste it in a new blank document. Save it as ReadingLesson2-Your registration number e.g **ReadingLesson2-2024-DECE-Day-0007** in your folder on the desktop. **(2 marks)**

c) Include a heading; JACK & THE BEAN STALK and format it to size 28. **(2 marks)**

d) Change line spacing for all paragraphs of text to 1.5. **(1 mark)**

e) Insert an auto shape of a face in the middle of paragraph 1. **(1 mark)**

f) On Page 2, use a table of **7 Rows** and **3 Columns** to design the class time table. **(2 marks)**

g) Modify the table in (f) above and make it appear like the one below. **(6 marks)**

Timetable for Reading lessons		
Mon	**CLASS 2**	**CLASS 3**
Tue		
Wed		
Thur		
Fri		

KEY:

Teacher Agnes Teacher Helen

(h) Insert a header as your name and a footer as your registration number **(1 mark)**

Note: Save the changes

Question 4

a) Create a database called Patients-your registration number e.g **Patients-2024-DECE-Day-0007** **(1 mark)**

b) Create a table with the information below and name it —patient table. Use appropriate data type. **(2 marks)**

Reg. no.	First name	Gender	Age	Ailment	Prescription	Review
08/U/12201	Ham	Male	20	Malaria	Tablets	3days
06/U/15421	Beth	Male	50	Tb	Injection	1week
02/U/62452	Kit	Female	35	Cancer	Tablets	5days
02/U/45781	Harry	Male	42	Hypertension	Tablets	2weeks
08/U/14202	Alpha	Male	36	Malaria	Drip	3days
07/U/34752	Chris	Male	18	Headache	Tablets	2days
04/U/21123	Maggie	Female	62	Cancer	Tablets	Month
08/U/17650	Morene	Male	20	Headache	Tablets	2days
02/U/12431	Francesca	Female	41.	Malaria	Drip	5days
05/U/18214	Keith	Male	36	Hypertension	Tablets	2weeks
03/U/1902	Alvin	Male	42	TB	Injection	30days
06/U/14352	Grace	Female	12	Malaria	Tablets	3days

b) Display the entire data in a form and call it ***Patients form.*** **(2 marks)**

c) Create a query to reflect all female patients below 21 years of age with malaria ailment and name it —Malaria patients. **(3 marks)**

d) Retrieve a report to reflect all patients with hypertension to be reviewed in 2 weeks. Name it ***"Hypertension".*** **(4 marks)**

e) Create a query to reflect male patients bellow 21 years of age with malaria ailment and name it ***"malaria form"*** **(3 marks)**

f) Create a report to view all records sorted with the first names of the patients and name it ***"all records".*** **(3 marks)**

g) Create a report to view all male patients. Name it ***"males"*** **(1 mark)**

h) Create a report for patients on drip.name it ***"drip patients"*** **(1 mark)**

Note: Save the work in your folder created on the desktop