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

ACADEMIC YEAR 2024/2025

DEPARTMENT: ICT

SEMESTER: ONE

PROGRAMME(S): DIPLOMA IN ELECTRICAL AND ELECTRONICS ENGINEERING (DEEE)

YEAR OF STUDY: ONE

COURSE: FUNDAMENTALS OF ICT

COURSE CODE : ICT111

DATE: MONDAY 16TH DECEMBER, 2024

TIME: 8:00 AM – 11:00 AM

DURATION: 3 HOURS

INSTRUCTIONS:

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

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

(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.

SECTION A [40 MARKS]

Attempt **ALL** the Questions in this Section.

Write the right alternative in the answer booklet provided **(2 marks@)**

1. Which unit is responsible for converting the data received from the user into computer understandable format?
   A. Memory Unit B. Arithmetic & Logic Unit
   C. Input Unit D. Output Unit

2. The only language which the computer understands is_____
   A. Assembly Language B. Binary Language
   C. BASIC D. C Language

3. The smallest unit of data in computer is_____
   A. Byte B. Nibble C. Bit D. KB

4. The input device commonly used for data input is _____
   A. Mouse B. Joystick C. Keyboard D. Bar Code Reader

5. The process of producing useful information for the user is called…….
   A. Controlling B. Outputting C. Inputting D. Processing

6. The output unit coverts the data entered by the user into computer understandable form.
   A. True B. False

7. VDU stands for_____
   A. Virtual Display Unit B. Visual Display Unit
   C. Virtual Detection Unit D. Visual Detection Unit

8. Which of the following is used in main memory?
   A. SRAM B. DRAM C. PRAM D. DDR

9. Which of the following are types of ROMs?
   A. SROM & DROM B. PROM & EPROM
   C. Only one type there is no further classification D. PROM & EROM

10. A non-erasable disk that stores digitized audio information is
    A. CD B. CD-ROM C. DVD-R D. DVD-R

11. ALU is the place where the actual executions of instructions take place during processing operation.
    A. True B. False

12. Which of the following is not a characteristic of a computer?
    A. Diligence B. I.Q. C. Accuracy D. Versatility

13. Assembler is used as a translator for?
    A. Low level language B. High Level Language C. COBOL D. C

14. What do you call a program in execution?
    A. Command B. Process C. Task D. Instruction

15. The software designed to perform a specific task is referred to as _____
    A. Synchronous Software B. Package Software
    C. Application Software D. System Software

16. Developing software _____ means a major commitment of time, money and resources.
    A. In-house B. In-sync C. On-date D. On-duration

17. Which of the following is not a way of acquiring software?
    A. Buying pre-written software B. Ordering customized software
    C. Downloading public-domain Software D. Duplicating the software

18. The language made up of binary coded instructions is called _____language.
    A. Machine B. C C. BASIC D. High level

19. The binary language comprises of digits 0 to 9.
    A. True B. False

20. The formal grammar rules governing the construction of valid instruction is ___.
    A. test case B. syntax C. program D. semantics

SECTION B [60 MARKS]

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

Question 1

The following table shows the Mid-Term Test results obtained from City High School.

a) Use any of the Spreadsheet programs and enter the data as shown below. **(2 marks)**

NAME	ENG	MATH	PHY	CHEM	BIO	ICT	TOT	AVE
Brian	70	80	95	78	88	90		
Rose	78	48	60	67	60	79		
Susan	80	75	70	65	90	85		
Michael	60	45	65	76	75	68		
Ben	70	89	69	88	67	88		
Lydia	75	75	85	69	78	80		
Ann	80	88	20	60	55	79		
Mary	85	78	78	75	90	85		
Sharon	85	90	79	80	78	87		
Joseph	79	84	75	60	55	65		

b) Calculate the Total and Average mark for each student. **(4 marks)**

c) Calculate the highest and lowest mark scored in each subject in row 13 and 14 respectively. **(4 marks)**

d) Add a heading called Grade in the column AVE. use the IF function to display “A” if the average is greater or equal to 90, “B” if the average is greater or equal to 80, “C” if the average is greater or equal to 70, “D” if the average is greater or equal to 60, “E” if the average is greater or equal to 50, else display an “F”. **(3 marks)**

e) Create a Pie-Chart showing the average for all students. Put your on its own sheet and name it “AVERAGE”. **(4 marks)**

f) Insert your name and registration number as a header and insert the page number on the bottom left. **(2 marks)**

g) Save your work as “**RESULTS-YOUR REGISTRATION NUMBER**”, e.g Results-2024-DEEE-DAY-7777-G **(1 mark)**

Question 2

The Ministry of health has appointed you as an educator. You are required to give a talk on “Monkey Pox Outbreak in Uganda”
You are required to:

a) Come up with the following slides as follows:
   i) Slide I - Should have the introduction of the Topic.
   ii) Slide II - Should have the content of the Topic.
   iii) Slide III - Should have ways how Monkey Ox spreads.
   iv) Slide IV – Ways to prevent Monkey Pox
   v) Slide V – What to day when one has symptoms of Monkey Pox.

b) Include your name and Personal number at the end of each slide.
c) Save your presentation as "**Mpox-Your registration number**", e,g MPox-2024-DEEE-DAY-7777-G **(20 marks)**

Question 3

a) Using a Word Processor of your choice, type the following passage as it is. **(6 marks)**

Our Father in Heaven

I tell you not worry about yourself.
Don't worry about having something to eat, drink or wear. Isn't life more than food or clothing?
Look at the birds in the sky, they don't plant or harvest. They don't even store grain in barns. Yet your father in heaven cares for them. Aren't you work more than the birds?

Don't worry and ask yourselves, will I have anything to eat? Will I have something to drink? Will I have any clothes to wear?
Only people who don't know God are always worrying about such things. Your father in heaven knows you need all these.

b) Make a copy of the document to the next page. **(2 marks)**
c) (Apply a font size 15 and capitalize the title **(3 marks)**
d) Apply font colour blue in the first paragraph **(1 marks)**
e) Add a drop cap to the first letter in the second paragraph to two lines **(2 marks)**
f) Insert a diagonal water mark of size 40 as your registration number. **(3 marks)**
g) Insert a heard as your name and footer as your registration number. **(2 marks)**
h) Save the document as "**Father -Your registration number**", e,g Father-2024-DEEE-DAY-7777-G **(1 mark)**

Question 4

Carefully study the information given below.

StudentID	Surname	FirstName	Sex	Club	Donation
BCM652	Kamusiime	Edwin	M	Interact	5000
BCM441	Moreri	Juliana	F	Debating	6300
BCM102	Mugerwa	Ronald	M	Writers	5500
BCM333	Akena	Kennedy	M	Interact	2200
BCM459	Kakaire	Musa	M	Writers	3600
BCM245	Ssentongo	David	M	Debating	9900
BCM134	Babibye	Lonah	F	Writers	5500
BCM101	Namulondo	Mary	F	Interact	6600
BCM376	Kafuko	Ivan	M	Debating	4700

a) Create a suitable database to manage the above information, name the

Database **CLUB**-**Your registration number**", e,g CLUB-2024-DEEE-DAY-7777-G. **(1 mark)**

b) Create a table using Design View, and name it STUDENTS TABLE. **(2 marks)**
c) Create a form called Students Entry Form and enter the above records. **(6 marks)**
d) Create a query displaying all the fields in the above table to filter out only students who are females. Save it as Females. **(2 marks)**
e) Create another query displaying all the fields of students with donations 5000 and above. Name it 5000 Plus. **(3 marks)**
f) Create a query displaying all the fields in the above table to filter out only students whose *donations* are between *2200* and *9900*. Name it Donations between 2200 and 9900. **(3 marks)**
g) Create a query to filter out the students who donated at least 5000 in Interact and Writers clubs. Name it Interact and Writers. **(2 marks)**
h) Create a report using Donations between 2200 and 9900 query. Name it Report Between. **(1 mark)**