

MAKERERE UNIVERSITY BUSINESS SCHOOL

**FINAL EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS
ADMINISTRATION OF MAKERERE UNIVERSITY, ACADEMIC YEAR 2024/2025**

COURSE NAME: ADVANCED ICT

YEAR OF STUDY: III

SEMESTER: II

TIME: 8:00AM – 9:00AM

COURSE CODE: BUC3229

DATE: SATURDAY 17TH MAY 2025

INSTRUCTIONS

- This examination paper is entirely practical to be done in **1 hour**; ensure you are sited on a computer that works properly and has the required software package [Microsoft Project] to answer the questions below.
- The paper comprises one (1) compulsory question which carries [25] marks
- Create a folder on the desktop in your name and registration number where you are required to save all your work. Eg *Sanya Ali 23-U-19463-EVE*
- Each student is strictly permitted to sit for the examination in only ONE shift
- In case of any technical challenge, the student **MUST** immediately inform the invigilator before leaving the examination
- Continuously save your work to avoid data loss in case of a technical problem.

Question one [25 marks]

Vertex Digital Solutions is currently in the advanced stages of developing a digital 5G handheld product, its goal is to unveil a product to the market that is compatible with the latest technology. To support project planning and management, you have been provided with a Work Breakdown Structure (WBS) below use it to create a project schedule.

Required;

(a) Using Microsoft Project create a new project called **Digital Appliance Development**, schedule the project to start on **1st August, 2025**. [2 marks]

(b) Create a project calendar called **Digital Appliance** to cater for the following exceptions days [5 marks]

Exception day	Date
Christmas Day	25th December 2025
Boxing Day	26th December 2025

(c) Make Saturday a working day up to 3:00 pm [3 marks]

(d) Using the **Digital Appliance calendar**, schedule the following project activities as indicated in the table. [7 marks]

ID	Activity	Duration (Days)	Predecessors	Resource initials
0	Digital Appliance Development			
1	Initial Planning			
1.1	Market Survey	10		MA
1.2	Functional Specifications	4	1.1	MA, PD, QE
1.3	Manufacturing planning	2	1.1	QE, ME
1.4	Product feature selection	1	1.2	MA, PD, QE
1.5	Develop marketing plan	0	1.4	MA
2	Design Product			
2.1	Design Manufacturing process	6	1.4	PD, QE, ME

2.2	Detailed product design	5	1.5	MA, PD
2.3	Prototype testing	1	2.1	PD, QE
2.4	Complete product design	0	2.3	MA, ME
3	Developing product			
3.1	Order product parts	7	2.3FS + 1 days	ME
3.2	Order manufacturing equipment	4	2.3FS + 4days	ME
3.3	Install equipment	0	3.2	PD, QE, ME

(e) Enter resources in the resource sheet as indicated below.

[2 marks]

Resource Name	Resource initials	Std. rate (\$)
Market Analyst	MA	60/hr
Product Designer	PD	100/hr
Quality Engineer	QE	80/hr
Manufacturing Engineers	ME	90/hr

(f) Assign resources to the project activities as indicated in the WBS.

[2 marks]

Mark all project tasks 100% complete.

[1 mark]

(g) What is the completion date and duration of the Digital Appliance project.

[1 mark]

(h) What is the project total cost as per the project completion date

[2 marks]

END OF QUESTION PAPER