061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/12/6

Perform System Analysis and Design

March/April 2025

TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL (TVET CDACC)

PRACTICAL ASSESSMENT

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Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

1. You are required to perform the following tasks
    i. *Draw decision table*
    ii. *Draw flow chat diagram*
    iii. *Data flow diagram*
2. You have been provided with the following resources for the practical tasks:

- *A computer with windows 7 or above and Microsoft Office 2010*
- *Printer*
- *Printing papers*

TASK 1

A wholesale shop sells items both in wholesale and retail. The items sold are either in cash or hire purchase. The customers are given a discount depending on how they pay for the goods. If the customer is a dealer and pays his bills within 30 days, 15% discount is allowed. If it is 30 to 40 days, discount and surcharge is zero. If he pays after 40 days, he has to pay 10% surcharge.

Required:

a) Create a folder **SAD PRACTICAL** on the desktop.

b) Using Microsoft word application draw decision table from the information given above.

c) Save the document as **DECISION** in the **SAD PRACTICAL** folder

d) Print the saved document.

TASK 2

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A patient arrives at the hospital and they are registered. After registration they see the available nurse who records their health condition. After recording the health condition, the nurse checks if there is an available doctor; if the doctor is available the patient is assigned. The patient then proceeds to see the assigned doctor. The doctor treats the patient and determines if the patient needs follow up. If the patient need follow up the doctor arranges for an appointment. If the patient doesn't need follow up, the patient is given prescription then proceeds to the pharmacy. The patient then leaves the hospital.

Required:

a) Using Microsoft word application draw a flowchart diagram to represent the logic in the narrative.

b) Save the document as **PATIENT** in the **SAD PRACTICAL** folder.

c) Print the saved document.

TASK 3

An advert is issued giving essential qualifications for a technical course, the last date for application, and the application fee. A clerk in the Registrar's office checks the received applications to see if result slip is attached, application fee is paid and sends valid applications to the concerned academic department. The department checks the application in details and decides which applicant to be admitted, those to be put in the waiting list, and those rejected. Appropriate letters are sent to the Registrar's office for onward forwarding to the applicant.

Required:

a) Using Microsoft word application draw a level 1 dataflow diagram (DFD) to represent the logic.
b) Save the document as **APPLICATION** in a folder named **SAD PRACTICAL**.
c) Print the saved document.

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