061006T4ICT

ICT TECHNICIAN LEVEL 6

IT/OS/ICT/CR/8/6

MANAGE INFORMATION SYSTEM

NOV/DEC 2023

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

PRACTICAL ASSESSMENT

TIME: 3 Hours

CANDIDATES INSTRUCTIONS

1. In this assessment, you are required to implement a DATABASE.
2. You are given **10 minutes** to read through the tasks and confirm the availability of the resources.
3. The assessor will record your performance at critical points using audio-visual means.
4. All tasks carry **50** marks.
5. You will be provided with the following resources
   a) Computer installed with MS office
   b) Printer
   c) Printing papers, three per student

ABC polytechnic needs a simple database structure to handle their requirement for information storage and retrieval. The institution has the following information on her students result called GRADE-REPORT.

S/No.	Adm NO:	Student Names	Assignments (10)	CAT (20)	Practicals (10)	Average (40)	End Term Exam (60)	Total Marks (100)	Grade	Remarks
1	7/456	WAIRIMU	8	14	7	29	33	62	C	SATISFACTORY
2	7/457	MARY	6	13	7	26	31	57	C	SATISFACTORY
3	7/458	GEOFFREY	8	13	8	29	34	63	C	SATISFACTORY
4	7/459	WAINAINA	8	14	7	29	34	63	C	SATISFACTORY
5	7/460	MOIGARE	8	12	7	27	38	65	B	CREDIT
6	7/461	CAROLINE	8	11	7	26	41	67	B	CREDIT
7	7/462	YUSUF	9	13	8	30	27	57	C	SATISFACTORY
8	7/463	GRACE	6	12	7	25	34	59	C	SATISFACTORY
9	7/464	BETH	7	14	6	27	37	64	C	SATISFACTORY
10	7/465	ANN	6	11	7	24	38	62	C	SATISFACTORY

Use MS Access to develop a simple database for this institution by taking the following activities.

Activities:

Task 1: Use the normalization process to identify all appropriate entities in the table above. (10 Marks)

Task 2: Create a new database called ABC and the tables identified in the previous section (5 Marks)

Task 3: Add 20 more records into the database using appropriate forms   (10 Marks)

Task 4: Construct an Entity Relationship (ER) model between the student, Assignments, Cats, Practical, Exams and the grade obtained.   (5 Marks)

Task 5: Use SQL query command to retrieve all students who got credit.   (7 Marks)

Task 6: Design a report to display on students who managed to obtain credit and above, include date and time   (10 Marks)

Task 7: Screenshot and print the report   (3 Marks)