



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

Qualification Code : 071606T4MCT
Qualification : Mechatronics Technician Level 6
Unit Code : ENG/OS/MC/CR/07/6/A
Unit of Competency : Manage mechatronic projects

WRITTEN ASSESSMENT

INSTRUCTIONS TO CANDIDATE

1. You have **THREE** hours to answer all the questions.
2. Marks for each question are indicated in the brackets.
3. The paper consists of **TWO** sections: A and B.
4. Do not write on the question paper.
5. A separate answer booklet will be provided.

SECTION A [40 MARKS]

Answer all the questions in this section

1. What is a project? (2 Marks)
2. State why we do need mechatronic project management? (3 Marks)
3. Describe the properties of NPV. (4 Marks)
4. What are the human aspects of project management? (3 Marks)
5. Write down the major demands of a project manager. (5 Marks)
6. What is work schedule? What purpose does it serve? (4 Marks)
7. Describe the importance and difficulties of capital investment. (5 Marks)
8. Discuss the tools & techniques of project management. (5 Marks)
9. Discuss the five broad phases of capital budgeting. (3 Marks)
10. What do you understand by SWOT Analysis? Explain with the help of example. (5 marks).

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SECTION B (60 MARKS)

(Answer any THREE (3) questions in this section)

11. How will you prepare a project budget? What are the various budgets? (20 Marks)
- 12.
- a) What are the three components of cash flow? (20 Marks)
- b) What is meant by “Environment Impact Assessment”? What are the stages for Environment Impact Assessment? Explain. (20 Marks)
13. Explain the PERT Model and CPM Model. (20 Marks)
14. Mechatronics being a combination of different fields at one point one will work with other members from other fields and form a team. List and explain the characteristics of a team. (20 Marks)

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