**071906T4AEN**
**Agricultural Engineering Level 6**
**ENG/OS/AGR/CR/04/6/A**
**Perform Soil and Water Conservation Activities**
**July /Aug 2023**

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

**PRACTICAL ASSESSMENT**

**Time: 3 Hours**

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**INSTRUCTIONS TO CANDIDATE**

1. You are required to perform the following tasks
    a) Construct **A –** frame structure 1m wide and 2m high
    b) Determine the percentage slope of the land
    c) Using the **A** - frame structure lay out two channel terraces each 5m long spaced using the vertical interval
    d) Excavate 2m length **fanya chini** channel terrace 60cm wide by 30cm deep

**This paper consists of TWO (2) printed pages**
**Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing**

2. You have been provided with the following resources

| s/No | Item | Quantity |
|---|---|---|
| 1 | Jembe/mattock | 1pc |
| 2 | Spade | 1pc |
| 3 | Sloping land | 7m along the slope |
| 4 | Spirit level | 1pc |
| 5 | Manilla string | 15m |
| 6 | Cotton wool for wiping hands | Enough |
| 7 | Liquid soap | 5litre for all |
| 8 | Running water | |
| 9 | Claw hammer | 1pc |
| 10 | Hand saw | 1pc |
| 11 | Tape measure | 1pc |
| 12 | pencil | 1pc |
| 13 | Nails 2 inch | 5pcs |
| 14 | Wooden Pegs | 14pcs |
| 15 | Tri-square | 1pc |
| 16 | Panga | 1pc |
| 17 | Timber 1inch by 1inch 2.5m long | 2pcs |
| 18 | Timber 1 inch by 1 inch 1 m long | 1pc |
| 19 | Plumb bob | 1pc |
| 20 | Ranging rods | 2pcs |
| 22 | Napier grass cuttings/splits | 20 pcs |
| 23 | White lime | 2kg |

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