

**MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY**

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**University Examinations 2014/2015**

FIRST YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR DIPLOMA/CERTIFICATE IN AGRICULTURE

**TEC 0150: WORKSHOP TECHNOLOGY**

**DATE: OCTOBER 2015 TIME: 11/2 HOURS**

**INSTRUCTIONS:** *Answer question* ***one*** *and any other* ***two*** *questions*

**QUESTION ONE (30 MARKS)**

1. (i) Sketch a micrometer screw gauge and label all the parts. (7 Marks)

(ii) Describe the procedure of setting and adjusting the oxy-acetylene welding equipment

for a steel. (8 Marks)

1. (i) Name six safety precautions that are recommended in the workshop. (6 Marks)

(ii) Name six standard items that should be included in a workshop first aid kit. (3 Marks)

1. Explain first aid as applied in workshop. (6 Marks)

**QUESTION TWO (15 MARKS)**

1. Name the ingredients that are required to start a fire and draw the fire triangle. (3 Marks)
2. State any three classes of fire and give the type of fuel that is required for each. (3 Marks)
3. Using a sketch, describe how a vernier calipher is used for measuring. (6 Marks)
4. Sketch any three types of files. (3 Marks)

**QUESTION THREE (15 MARKS)**

1. Name and sketch any four types of welded joints. (8 Marks)
2. Describe the procedure of cutting internal threads in a hole. (7 Marks)

**QUESTION FOUR (15 MARKS)**

1. Sketch the following types of tools:
2. Hand vice
3. Hand drill
4. Ball pein hammer (9 Marks)
5. Name any two tools used for the following tasks:
6. Forming.
7. Cutting.
8. Marking out. (6 Marks)