



**THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE**

**(A Constituent College of JKUAT)**

(A Centre of Excellence)

# **Faculty of Engineering & Technology**

**DEPARTMENT OF COMPUTER SCIENCE & INFORMATION  
TECHNOLOGY**

**UNIVERSITY EXAMINATION FOR:  
BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY  
(BSc. IT Y1S2)**

**BIT 2111: COMPUTER AIDED DESIGN (AUTOCAD) & ART**

**END OF SEMESTER EXAMINATION  
SERIES: DECEMBER 2012  
TIME: 2 HOURS**

**Instructions to Candidates:**

1. You should have the following for this examination
    - *Answer Booklet*
  2. This paper consist of **FIVE** questions
  3. Answer question **ONE (COMPULSORY)** and any other **TWO** questions
  4. Question **ONE** to be done on the answer sheet provided. Question **TWO** to **FIVE** to be done using a Computer which is installed with AUTOCAD.
  5. Create a folder on the Desktop and **SAVE** the practical section in this folder. Indicate your Student Number in this folder
  6. Maximum marks for each part of a question are as shown
  7. This paper consists of **FOUR** printed pages
- 

**Question One (Compulsory)**

Figure 1 below shows the pictorial view of a wooden component.

- a) Draw the 3D model of the component. **(20 marks)**
- b) Use four viewports to display the front elevation, and elevation and plan view. **(10 marks)**

### **Question Two**

Figure **TWO** below shows the elevation of a machine blocks.

- a) Draw the elevation using a scale of 1:1. **(15 marks)**
- b) Show at least 5 dimensions **(5 marks)**

### **Question Three**

Figure 3 shows the elevation of a chisel.

- a) Draw the elevation using a scale of 1:1 **(14 marks)**
- b) Show all the dimensions **(6 marks)**

#### **Question Four**

Figure 4 shows the elevation of a machine gasket component.

- a) Draw the elevation to a scale of 1:1 **(14 marks)**
- b) Show at least five dimensions. **(6 marks)**

#### **Question Five**

Figure 5 shows the pictorial view of a machine component.

- a) Model the view to a scale of 1:1 **(14 marks)**
- b) Show all the dimensions. **(6 marks)**