



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2012/13 ACADEMIC YEAR

**1ST YEAR 1ST SEMESTER EXAMINATION FOR THE DIPLOMA IN
BUILDING AND CIVIL ENGINEERING**

COURSE CODE: TBC- 2217

COURSE TITLE: WORKSHOP TECHNOLOGY III

DATE: 21/4/2013 11.00-13.00PM

DURATION: 2 HOURS

INSTRUCTIONS

1. This paper consists of 5 questions
2. Answer question ONE and any other two questions
3. Answer on the answer booklets provided

QUESTION ONE

- a) Name three ways in which you can be exposed to hazardous substances in a workshop
(3marks)
- b) Give three dress rules that you should always follow while in a workshop
(3marks)
- c) Name three hazards that are likely to arise when carrying out welding or flame cutting
(3marks)
- d) In the plan of the 16th editions of the IEE regulations, the regulations are in seven parts.
Give the seven parts
(7 marks)

QUESTION TWO

- a) Fire is a great danger in a workshop and care must be taken not to start a fire. Give the three main causes of fire in a workshop
(3marks)
- b) Name the five types of fire extinguishers
(5marks)

QUESTION THREE

- a) Give the colour coding for wiring of a building for the phase power supply
(5marks)
- b) What are the three components used for electrical installation in a premise
(3marks)

QUESTION FOUR

- a) What are the two main types of earthing systems
(2marks)
- b) Name three tool used for marking out in a mechanical workshop
(3marks)
- c) Give three tools used for cutting metal in a mechanical workshop
(3marks)

QUESTION FIVE

- a) In plant maintenance the assets to be maintained involve more than one valued component. Name the typical assets
(3 marks)
- b) The maintenance procedures to be followed are not fully defined and must be modified. Give five typical procedures to be carried out during the maintenance
(5marks)