



# OBAFEMI AWOLOWO UNIVERSITY

ILE-IFE, OSUN STATE, NIGERIA

## DEPARTMENTS OF FOOD SCIENCE AND TECHNOLOGY/CHEMICAL ENGINEERING

B.Sc. Degree Examination 2011/2012 Session

AGE 202: WORKSHOP PRACTICE TEST

Rain Semester, January 2013

Time Allowed: 1hr.20mins

INSTRUCTION: ANSWER ALL QUESTIONS IN SECTIONS A&B

### SECTION A

- 1) At what appropriate distance must the tip of the electrode be held from the work piece during welding? ..... mm.
- 2) Which of the following metals has the lowest melting point? (a) tin (b) zinc (c) Lead (d) solder
- 3) Which of the following properties in a material is often associated with hardness? (a) ductility (b) plasticity (c) brittleness (d) toughness
- 4) The Vice is very important in the Workshop (a) for fixing metals to the table (b) for rigid work holding of the work piece (c) because its jaws can be opened and closed easily (d) because it is very strong for hammering.
- 5) What is the name of the instrument used to remove slag after arc welding?
- 6) A rough piece of metal is to be marked out with the aid of a vernier height gauge. Which of the tools listed below will be most appropriate for preparing this metal for such operation? (a) Back plate (b) Scribing bit) (c) Try Square (d) Marking off table.
- 7) Mark true (T) or False (F) for each of the following:
  - a. In a sheet-metal works, thin bulk of materials used is pressed medium carbon sheet.
  - b. Sheet metal work is an art of increasing the strength of light sheet in engineering
  - c. The blades of a hand steering machine is made of high carbon steel and case hardened to improve its strength and resistance to wear
  - d. The basic difference between a galvanized sheet of the same gauge and size is the thickness
- 8) Joining processes can be permanent heat involved or non-heat involved or temporary state =
  - i) 2 types of joining that are permanent heat involved
  - ii) 1 type of joining that is permanent non-heat involved
  - iii) 2 types of joining that are temporary

RESERVE

- 9) Name the three types of flames that are usually made use of in oxyacetylene welding
- 10) When using a hack saw blade for cutting, metal removal occurs during (a) The forward stroke (b) the backward stroke (c) at any time pressure is applied to the Frame

## SECTION B

- 1) (a) Name five marking tools  
(b) Name five types of files
- 2) (a) Name five parts of the Lathe machine and their uses  
(b) Name five hand tools and their uses
- 3) (a) Name five methods that can be used for joining metals  
(b) Give any four reasons that can account for hack saw breakage while in use.

RESERVE