BOWEN UNIVERSITY, IWO DEPARTMENT OF BIOLOGICAL SCIENCES

2010/2011 SECOND SEMESTER EXAMINATION

MCB 410: INDUSTRIAL MICROBIOLOGY

Answer question 1 and one question from each of sections B and C. Answer question 1 and Section B in one booklet and Section C in another booklet.

Time: 2hr 15 mins.

SECTION A

- (a) Explain the numerous methods available to detect wild yeasts in beer.
 - (b) Present a well-labelled diagram of a generalized batch fermenter as currently employed in the industry. (25 Marks)

SECTION B

- (a) Write in details on the production of spirit beverages.
 - (b) State the starting materials ONLY of the following alcoholic beverages
 - (i) Rum
 - (ii) Brandy
 - (iii) Burukutu
 - (iv) Champagne

(25 Marks)

Write on quality control in industrial production.

(25 Marks)

SECTION C

Write an essay on "industrial enzymes".

(25 Marks)

- (a) Write briefly on microrganisms associated with wood rot
 - (b) Discuss any two main types of wood rot caused by microorganisms.
 (25 Marks)