

## **Technical University of Mombasa**

**Faculty of Applied and Health Sciences** 

### DEPARTMENT OF PURE AND APPLIED SCIENCES

DIPLOMA IN INDUSTRIAL MICROBIOLOGY AND BIOTECHNOLOGY (DIMBT 10M)

# ABT 2306: TRENDS IN INDUSTRIAL MICROBIOLOGY BIOPOLICY AND ETHICS

**SPECIAL/SUPPLEMENTARY: EXAMINATIONS** 

**SERIES:** February 2013

**TIME: 2 HOURS** 

#### **INSTRUCTIONS:**

You should have the following for this paper

- Answer booklet

This paper consists of *FIVE* questions. Answer Question **ONE** (compulsory) and any other **TWO** questions *This paper consists of 2 PRINTED pages* 

### **Question ONE**

a)	Outline the role of the following in biotechnology	
	(i) National Biotechnology education centre	(2marks)
	(ii) National Biosafety Authority	(2marks)
	(iii) Public education and Awareness creation	(2marks)
	(iv) National council for science and technology	(2marks)
	(v) Kenya Bureau of standard (KEBS)	(2marks)
b)	Describe the roles of the following	(2
	(i) Environmental biotechnology	(2marks)
	(ii) Coordination in biotechnology	(4marks)
	(iii) Treaty in biotechnology	(2marks)
۵)	(iv) International law biotechnology	(2marks)
c)	Define the following inrelation to biotechnology  (i) Intellectual property right	(2manles)
	<ul><li>(i) Intellectual property right</li><li>(ii) Putent</li></ul>	(2marks) (2marks)
	(iii) Copy right	(2marks)
	(iv) Trade mark	(2marks)
	(v) Bioprospecting	(2marks)
	(v) Bioprospecting	(Ziliai Ks)
Question TWO		
Discuss intellectual property right in Biotechnology in relation to		
	(i) Research, development and management	(5marks)
	(ii) Technology transfer	(5marks)
	(iii) Traditional knowledge	(5marks)
Question THREE		
Discuss the role of Biotechnology in relation to		
	(i) Food and agriculture	(5marks)
	(ii) Medicine and health	(5marks)
	(iii) Industry and trade	(5marks)
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Question FOUR		
	a) State the roles of ethics in biotechnology	(6marks)
	b) Discuss the application, of ethics in biotechnology	(9marks)
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Question FIVE		
	a) Outling the roles of higher agreeting in highest had agree	(7maulsa)
	<ul><li>a) Outline the roles of bioprospecting in biotechnology</li><li>b) Discuss the application of bioprospecting in biotechnology</li></ul>	(7marks) (8marks)
	biscuss the application of dioprospecting in diotechnology	(omai ks)