

### **<u>INSTRUCTIONS</u>**; Answer question ONE and any other TWO questions

### **QUESTION ONE (30 MARKS)**

a) Explain the following terms with reference to environmental technologies and innovations:

i.	Eco-innovations	(2 marks)
ii.	Eco-efficiency	(2 marks)
iii.	Environmental technologies	(2 marks)
iv.	Process innovations	(2 marks)
v.	Organizational innovations	(2 marks)

- b) As the head of environment management unit in an industrial setting, discuss the practices you would recommend to reduce generation of waste and emissions at the source (10 marks)
- c) Citing relevant examples, discuss the link between environmental innovations and sustainable development (10 marks)

### **QUESTION TWO (20 MARKS)**

- a) Using suitable examples, discuss the key factors affecting the adoption of sustainable environmental technologies in Kenya (10 marks)
- b) Explain the policy instruments that can be adopted to promote development and adoption of environmental technologies in Kenya (10 marks)

# **QUESTION THREE (20 MARKS)**

Citing relevant examples, discus how environmental innovations and technologies can be used in addressing:

- a) Solid waste management (10 marks)
- b) Desertification

## **QUESTION FOUR (20 MARKS)**

Discuss the role of integrated research and development in environmental innovations and technologies

## **QUESTION FIVE (20 MARKS)**

Discuss key steps in the development and implementation of an Environmental Management System (EMS)

(10 marks)