

**W1-2-60-1-6**

**JOMO KENYATTA UNIVERSITY**

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2015/2016**

**SECOND YEAR FIRST SEMESTER/SECOND YEAR SECOND SEMESTER/FOURTH YEAR FIRST SEMESTER EXAMINATION FOR THE**

**DEGREE OF BACHELOR OF COMMERCE/BACHELOR OF HUMAN RESOURCE MANAGEMENT/BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**

**HEH 2307:/HSC 2408: TECHNOLOGY AND INNOVATION**

**DATE: DECEMBER 2015 TIME: 2 HOURS**

**INSTRUCTIONS: ANSWER QUESTION ONE AND ANY OTHER TWO IN QUESTIONS**

**QUESTION ONE**

1. Explain the meaning of the following terms as used in

 technology and innovation:

1. Technology diffusion [2 marks]
2. Technology assimilation [2 marks]
3. Technology transfer [2 marks]
4. Open innovation [2 marks]
5. Closed innovation [2 marks]
6. Discuss the process of new product development. [5 marks]
7. Describe some of the sources of innovation. [5 marks]
8. Explain the role of technology in societal change. [5 marks]
9. Discuss the main enhances or technological innovation. [5 marks]

**QUESTION TWO**

1. Clearly illustrate the technology life cycle. [10 marks]
2. Distinguish between technology exploitation and technology

exploration. [10 marks]

**QUESTION THREE**

Diagrammatically illustrate the Rogers Model of technology

diffusion and adoption. [20 marks]

**QUESTION FOUR**

1. Describe the factors that enhance technology transfer. [10 marks]
2. Explain the role of technology in productivity and business growth. [10 marks]

**QUESTION FIVE**

1. Explain the main dimensions of technology. [10 marks]
2. Analyze the characteristics of appropriate technology. [10 marks]