

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

**JOMO KENYATTA UNIVERSITY OF AGRICULTURE**

**AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2018/2019**

**YEAR II SEMESTER I EXAMINATION FOR THE DEGREE OF BACHELOR OF BUSINESS INNOVATION AND TECHNOLOGY MANAGEMENT**

**HEIT 2201: DESIGN AND MANAGEMENT OF R&D PROJECTS**

**DATE: AUGUST 2019 TIME: 2 HOURS**

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

**QUESTION ONE (COMPULSORY) 30 MARKS**

a) Identify a problem/issue in the society that requires to be addressed through R&D approach. Discuss it through the following highlights (20 marks)

1. Title of the R&D
2. Objectives
3. Statement of the problem/issue
4. Identify data and information sources
5. Develop a data analysis plan
6. Develop a dessimination plan to share the research findings
7. Draw a conclusion and recommendations toward the solutions

b) In view of the importance of R&D in social, economic and political development. Discuss the extent to which it has impacted on the development process in the modern society (10 marks)

**QUESTION TWO (20 MARKS)**

a) Outline the necessity of stimulating R&D in business enterprise sector (10 marks)

b) What is the role of academia in promoting a knowledge based economy through R&D (10 marks)

**QUESTION THREE (20 MARKS)**

a) Explain the methods of strategizing and planning R&D projects (10 marks)

b) R and D has a role in technology generation and technological innovation. Discuss the innovation process models, their generation and characteristics (10 marks)

**QUESTION FOUR (20 MARKS)**

a) Explain some of the challenges in implementing R&D projects in the developing world

(10 marks)

b) Explain 5 key performance indicators in a R and D project (10 mark)