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**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF SPATIAL PLANNING**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN WATER RESOURCE AND ENVIRONMENTAL MANAGEMENT**

 **SEMESTER 2016/2017 ACADEMIC YEAR**

**CENTRE: MAIN CAMPUS**

**COURSE CODE: PES 3312**

**COURSE TITLE: INDIGENEOUS KNOWLEDGE IN NATURAL RESOURCE MANAGEMENT**

**EXAM VENUE: STREAM: SPATIAL PLANNING**

**DATE: EXAM SESSION:**

**TIME: 2 HOURS**

**Instructions:**

1. **Answer question 1 ( compulsory ) and ANY other 2 questions.**
2. **Candidates are advised not to write on the question paper.**
3. **Candidates must hand in their answer booklets to the invigilator while in the examination room**

# Question One

1. Discuss **FOUR** ways in which traditional knowledge is superior to scientific knowledge

 (16 marks)

1. Discuss **FOUR** traditional ways of water quality management (14 marks)

# Question Two

1. Discuss the **TWO** broad categories of one way communication (4 marks)
2. For each category, discuss **TWO** examples (8 marks)
3. Discuss which levels of tokenism are appropriate and not appropriate for one way communication (8 marks)

# Question Three

1. Explain **FIVE** factors to consider in stakeholder analysis (10 marks)
2. Discuss some of the attributes of very important stakeholders (VIS) (10 marks)

# Question Four

1. Discuss the **FIVE** levels in stakeholder engagement (10 marks)
2. Give **FIVE** reasons for carrying out a stakeholder analysis. (10 marks)

# Question Five

1. The lack of wide popularity of traditional knowledge in the post-modern era has been brought about by some of the ways in which it is propagated. Discuss **FIVE** such ways.

 (15 marks)

1. Enumerate **FIVE** traditional methods of one way communication (5 marks)