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

**UNIVERSITY EXAMINATION FOR THE DIPLOMA IN DISASTER MANAGEMENT**

 **SEMESTER2 2016/2017 ACADEMIC YEAR**

**CENTRE: NAIROBI CITY CAMPUS**

**COURSE CODE: PDM 2114**

**COURSE TITLE: DISASTER AND TECHNOLOGY**

**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 1**

1. Define disaster and technology and explain its role in disaster management (10 marks)
2. Explain the meaning of the following terms as used in disaster management:
3. G.I.S (2 marks)
4. Remote sensing (2 marks)
5. G.P.S (2 marks)
6. Disaster (2 marks)
7. Vulnerability (2 marks)
8. With examples, describe technology caused disasters (10 marks)

**QUESTION 2**

1. Discuss how Emergency Management Systems helps in disaster preparedness (10 marks)
2. State and explain the features of G.I.S for disaster management (10 marks)

**QUESTION 3**

1. Explain the advantages and disadvantages of remote sensing (10 marks)
2. Explain the various types of disasters with examples (10 marks)

**QUESTION 4**

1. Define remote sensing and explain the types of remote sensing with respect to wavelength (10 marks)
2. Explain the challenges of remote sensing (10 marks)

QUESTION 5

1. Describe the **FOUR** phases of an emergency (8 marks)
2. Discuss the use of G.I.S in disaster management (12 marks)