



W1-2-60-1-6

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

UNIVERSITY EXAMINATIONS 2021/2022

**EXAMINATIONS FOR THE DEGREE OF MASTER OF IN PUBLIC HEALTH
PEH 3101/TID 3101: DATA ANALYTICS & VISUALIZATION/COMPUTER APPLICATIONS
IN HEALTH RESEARCH**

DATE: JULY/AUGUST 2022

TIME: 3 HOURS

INSTRUCTIONS: SELECT ANY FOUR QUESTIONS

- Q1 Define data analytics and discuss the role of data analytics in health care (25 marks)
- Q2 a. Discuss the types of data analytics giving relevant examples (10 marks)
- b. Discuss the strengths and limitation of four data analysis and visualization software (15 marks)
- Q3. Describe the various modelling categories used for data visualization. (25 marks)
- Q4. Discuss the data quality dimensions that a research scientist should evaluate while retrieving and processing unstructured data to support decision making processes. (25 marks)
- Q5. Describe the various categories of geographical information systems (GIS) data capture models as applied in mapping activities. (25 marks)
- Q6. The internet offers access to myriad resources but some of them can be of questionable quality. Discuss the various criteria used to evaluate the quality of web information / literature. (25 marks)

