



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF EDUCATION
SCIENCE
3RD YEAR 1ST SEMESTER 2016/2017 ACADEMIC YEAR
MAIN CAMPUS

COURSE CODE: SCS 203

COURSE TITLE: INFORMATION SYSTEMS ANALYSIS AND DESIGN

EXAM VENUE:

STREAM: BED SCIENCE

DATE:

EXAM SESSION:

TIME: 2.00 HOURS

INSTRUCTIONS:

- 1. Answer Question 1 (Compulsory) and ANY other two**
- 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

- a) Define the term “system”. (2 Marks)
- b) State any **THREE** features of systems. (6 Marks)
- c) State any **TWO** reasons for carrying out systems investigation. (2 Marks)
- d) State any **FOUR** reasons for user resistance during systems development. (4 Marks)
- e) Explain any **TWO** roles of the user during system investigations. (2 Marks)
- f) State any **FOUR** sources or causes of systems projects. (4 Marks)
- g) State any **TWO** reasons for recording facts. (2 Marks)
- h) Briefly describe the qualities of good information. (8 Marks)

QUESTION TWO

- a) Define the term “Feasibility study” and state any **THREE** objectives of feasibility Study. (5 Marks)
- b) Using relevant examples, briefly explain **THREE** English like statements used in systems development. (6 Marks)
- c) Elucidate on the content of the user training report. (9 Marks)

QUESTION THREE

- a) “Everything an expert system can do, a decision support system (DSS) can also do”. Discuss any **FIVE** grounds that consistently support or disapprove this statement. (10 Marks)
- b) Discuss any **FIVE** ethical and societal dimensions to the development and use of information technology. (10 Marks)

QUESTION FOUR

- a) Systems development methodology is the way in which information systems are developed. System developers have an option of picking either structured or rapid application development, one of the mostly used structured approach is Systems Development Life Cycle (SDLC). As a developer who is planning to use this methodology, briefly explain the **FIVE** key requirements to use it. (10 Marks)
- b) With the aid of examples differentiate between physical and logical design as used in information systems development. (4 Marks)
- c) Write short notes on post implementation review. (6 Marks)

QUESTION FIVE

- a) Explain the role of the following stakeholders in systems development;
- i) Systems analyst (2 Marks)
 - ii) Steering committee (2 Marks)
 - iii) System user (2 Marks)
 - iv) System consultant (2 Marks)
 - v) Knowledge engineer (2 Marks)
- b) 'System development is both a social-economic and technical activity' discuss this statement with regards to feasibility study. (6 Marks)
- c) Discuss any **TWO** merits and **TWO** demerits of prototyping as a system development methodology. (4 Marks)