



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS**

**UNIVERSITY EXAMINATION FOR THE BACHELOR OF INFORMATION  
COMMUNICATION TECHNOLOGY**

**4<sup>TH</sup>YEAR 1<sup>ST</sup>SEMESTER 2017/2018 ACADEMIC YEAR**

**MAIN CAMPUS**

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**COURSE CODE: ICT 3418**

**COURSE TITLE: PROJECT DESIGN WORKSHOP**

**EXAM VENUE: STREAM:**

**DATE: EXAM SESSION:**

**TIME: 2.00 HOURS**

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**INSTRUCTIONS:**

- 1. Answer Question 1 (Compulsory) and ANY other three 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 Five

- a) A software house specializing in financial systems, with over 1,000 customers in the U.K. and Europe, intends to send system components to these customers via the Internet, to save time, money and administrative efforts. You have been asked to advise them on the risks this project might face, and how you would address these.  
(10 marks)
- b) Whereas the above breakdown appeals more to members of an executive board who understand and are more interested in financial terms most IT projects deliver more than financial benefits.  
Explain ways through which you will account for both financial and non financial benefits of a system of your choice

(10 marks)

### Question One

- a) Scholars argue that IT is the second biggest carbon emission industry. You have been asked lead on a project within your university on reducing ITs carbon foot print. Reflect on you're your fact finding exercise then based on your findings review areas which increases ITs carbon emission and provide strategies to reduce the carbon emission  
(8 marks)
- b) Within the subjects of globalization, outsourcing, virtual teams, and agile project management describe how these recent trends affect IT project management  
(6 marks)
- c) Using a project you are familiar with discuss any four phases as they interact with any four knowledge areas of project management

(16 marks)

### Question Two

- a) Explain the importance of good human resource management on IT projects while reflecting on current state of the global IT workforce and its future implications  
(12 marks)
- b) Using a practical example, provide a justification for projects that have more than financial benefits.

(8 marks)

### Question Three

- a) Explain why people program for reusability and use existing assets in their programs considering Porters assertions on competitive edge.  
(10 marks)
- b) Explain why estimation of the effort involved in systems building activities, especially programming, is particularly difficult at the start of a project, and outline an approach which might increase the accuracy of estimates.

(10 marks)

### Question Four

- a) As the new Software Change Manager for a major airline, describe your main responsibilities, and explain how you would manage the implementation of a quality management system in the systems and programming department that keeps requesting changes.

(10 marks)

- b) As an experienced project manager you are required to create a job advertisement, explaining person specific qualities, training and career aspirations for the most suitable candidate for the position of a lead system analyst for large ERP project for a multinational

(10 marks)