UGANDA MARTYRS UNIVERSITY

UNIVERSITY EXAMINATIONS

FACULTY OF SCIENCE

BSC (IT, Gen) SUPPLIMENTARY/SPECIAL EXAMINATION

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION SYSTEMS

SYSTEMS ANALYSIS AND DESIGN

SECOND YEAR EXAMINATION FOR BSC (IT, Gen)

DATE: Thursday 07 August 2014

TIME: 10.00 – 1.00 PM

Instructions:

- Attempt five questions. Each question carries 20 marks

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1. It is asserted that "A successful Systems Analyst is a Professional". Point out the relevance of this assertion with regard to the skills-set' domain. (20 marks)

2. The Systems Development Life Cycle (SDLC) is one of the most important Systems Development methodologies used in the development of Information Systems. Describe the various phases of this development methodology. (20 marks)

3. A major deliverable during Project Feasibility Survey is the production of a Baseline Project Plan (BPP) . Point out the objective and contents of this document. (20 marks)

4. You have been designated a Project Manager of a major project that is supposed to design and implement a Library Loan system for UMU. Describe the skills-set and activities you would be involved in during the Information Systems development. (20 marks)

5. One of the important steps during the Planning phase of the SDLC is carrying out a Feasibility Survey to assess the Project's Feasibility. Explain the various ways used to carry out such an exercise.
   (20 marks)
6. One of the important steps in the Analysis phase of the SDLC is the determination of Systems Requirements. Discuss the advantages and disadvantages of the Traditional methods of determining such requirements. (20 marks)
7. (a)Assume you are to implement a web-based student registration and monitoring system for Kisubi Brothers University College, point out the software tools you would use to construct this system. (8 marks)
   (b) How would the following factors influence the success or failure of the above implementation.
   i. User involvement and influence (4 marks)
   ii. Management support and commitment (4 marks)
   iii. Level of complexity and risk (4 marks)
8. (a) What are CASE tools and how are they useful in systems development? (4 marks)
   (b) Differentiate between Upper CASE and Lower CASE tools. (4 marks)
   (c) Explain the role of the following CASE tools during systems development.
   i. Diagramming tools (4 marks)
   ii. Analysis tools (3 marks)
   iii. Form and Report generator tools (3 marks)

iv. Code generation tools (2 marks)

END