THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

AUGUST - DECEMBER 2015 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF LIBRARY AND INFORMATION SCIENCE

EVENING PROGRAMME

LIS 404: NETWORK DESIGN AND ADMINISTRATION

Date: DECEMBER 2015	Duration: 2 Hours
INSTRUCTIONS: Answer Question ONE and ANY OTHER TWO Questions	

Q1. a) As a network designer, one needs to explain to the management THREE major points, explain each point. **(3 marks)**

b) A network is thought of as being made up of THREE parts, name and explain them. **(6 marks)**

c) List the major achievable in network design. **(4 marks)**

d) Explain the EIGHT major networking issues in network designs. **(8 marks)**

e) Outline the TWO major network design methodologies. **(4 marks)**

f) Outline ONE major problem with the traditional network design methodology. **(2 marks)**

g) Explain the THREE major points that are required in order to have a good network design. **(3 marks)**

Q2. a) With the help of a diagram explain what a network development life cycle is. **(7 marks)**

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b) In network design and implementation cycle, in the first stage which is analyze the requirements, outline FOUR major points to consider at this stage. **(4 marks)**

c) Explain the network design methodology that one would use when a customer expects a quick response to a network design request. **(2 marks)**

d) Outline how the Top-Down network design process works. **(4 marks)**

e) Explain the THREE major advantages of the Top-Down design process. **(3 marks)**

Q3. a) With the help of a diagram explain how a network design and implementation cycle works. **(6 marks)**

b) Explain how each stage is achieved. **(14 marks)**

Q4. a) With the help of a diagram explain how PDIOO network life cycle works and explain what each stage does. **(6 marks)**

b) Outline the FOUR major overall characteristics of network analysis and design methodology. **(4 marks)**

c) Explain the overall guidelines for network analysis and design methodology. **(8 marks)**

d) List and explain any TWO approaches used for design. **(2 marks)**

Q5. a) In network management, explain the main jobs of a network manager. **(3 marks)**

b) List the FOUR major specialties in network management that have been divided into. **(4 marks)**

c) List THREE major network based management tools, that are used to control the network. **(3 marks)**

d) Name one network based management tool that is used to monitor the network. **(2 marks)**

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e)   Explain what network management involve in network system
     administration.   **(6 marks)**

f)   Explain what the following terms in network management mean
     i   Managed device.
     ii   Managing Entity.
     iii   Network management protocol.
     iv   Management information base (MIB)   **(2 marks)**

END

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