JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF INFORMATICS AND INNOVATIVE SYSTEMS

DEPARTMENT OF COMPUTER SCIENCE & SOFTWARE ENGINEERING

UNIVERSITY EXAMINATION FOR THE DIPLOMA IN LINUX ENGINEERING

2ND YEAR 1ST SEMESTER 2015/2016 ACADEMIC YEAR

KISUMU LEARNING CENTER

COURSE CODE: ICT 2213

COURSE TITLE: NETWORK SYSTEME INTEGRATION AND ADMINISTRATION

EXAM VENUE: **STREAM:**

DATE: **EXAM SESSION:**

TIME:

INSTRUCTIONS

1. Answer Question 1 (Compulsory) and ANY other TWO 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 1 [30 marks]

a) Who is a System Administrator?   **(4 marks)**
b) State the other types of Administrators that you may find in a large organization?   **(4 marks)**
c) State the types of commonly used topologies in planning the network   **(4 marks)**
d) What are the factors that inform a security policy   **(4 marks)**
e) State the qualities of a successful System Admin   **(3 marks)**
f) What is the role of the System Administrator when dealing with system architecture?   **(6 marks)**
g) State the principles of a System Administrator   **(6 marks)**
h) State the LDAP specific terms used in class   **(3 marks)**

Question 2 [20 marks]

a) Discuss the samba daemons and related services.   **(10 marks)**
b) Write codes in the shell prompt as root that can be used to start, stop and restart samba. Write an example of configuration of samba server **(10 marks)**

Question 3 [20 marks]

a) What are the common NIS topologies that are commonly used   **(4 marks)**
b) Discuss the steps to configure a NIS server and a NIS client   **(11 marks)**
c) State Edvard's states of desktop lifecycle   **(5 marks)**

Question 4 [20 marks]

a) Discuss the principles of a System Administrator   **(12 marks)**
b) Discuss the activities carried out during troubleshooting   **(8 marks)**

Question 5 [20 marks]

a) Discuss the advantages and disadvantages of NFS   **(20 marks)**