



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 2ND SEMESTER 2018/2019 ACADEMIC YEAR

KISUMU CAMPUS

COURSE CODE: ICT 2213

COURSE TITLE: NETWORK SYSTEM 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? **(3 marks)**
- c) State the types of commonly used topologies in planning the network **(4 marks)**
- d) State the steps that are used in NFS server configuration **(4 marks)**
- e) What are the advantages of LDAP? **(3 marks)**
- f) Describe Edward's states of desktop lifecycle **(5 marks)**
- g) What would you type to find out if samba is installed? **(2 marks)**
- h) Describe the general procedure in setting up an NIS client **(5 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) Describe the four NIS topologies that are commonly in use **(8 marks)**
- b) Discuss the steps to configure a NIS server with one or more client **(12 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 NFS server configuration steps **(8 marks)**
- b) Discuss the advantages of using NFS **(8 marks)**
- c) give any four examples of NFS server daemons **(4 marks)**