



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY

SIT 303: SYSTEM ADMINISTRATION

DATE: THURSDAY, 5TH APRIL 2012

TIME: 2.00 P.M. – 4.00 P.M.

INSTRUCTIONS:

Answer question **ONE** and any other **TWO** questions.

Question 1

- a) Describe the functions of the following services which can be configured in server 2003. [8 Marks]
 - i) Domain controller
 - ii) DNS
 - iii) Terminal services
 - iv) RAS
- b) Distinguish between system and network administration. [2 marks]
- c) What is the function of active directory in windows server? [2 marks]
- d) Describe steps of creating a domain user account with administrative credentials on the server. [5 marks]
- e) Explain how you promote and demote a computer running server 2003 to domain controller. [2 marks]

- f) Distinguish between Domain and work group. State three advantages of implementing domain over workgroup. [5 marks]
- g) Describe step by step process that will take place to resolve the domain name www.sports.cnn.com by the DNS servers. [6 marks]

Question 2

- a) Clearly distinguish between dynamic and static routing. [2 marks]
- b) What is the function of APIPA addresses? [2 marks]
- c) Describe how the following tools can be used for troubleshooting network. [6 marks]
- i) ipconfig
 - ii) ping
 - iii) tracert
- d) Mention four benefits gained by integrating DNS with Active Directory [4 marks]
- e) Outline six permissions that can be applied to files and folders on an NTFS volume [6 marks]

Question 3

- a) Highlight three advantages and two disadvantages of using DHCP in an enterprise network. [5 marks]
- b) Describe any three password policies that you can set in server 2003 and justify the need of the policies [6 marks]
- c) Explain the authentication process in Windows Server 2003. Highlight how a user gains access to resources on a Windows network. [3 marks]
- d) i) Explain fault tolerance as applicable in server 2003 disk storage. [2 marks]
- ii) Explain the **two** RAID systems that are fault tolerance. [4 marks]

Question 4

- a) Describe each of the FOUR stages of the DHCP lease process. [12 marks]
- b) Why would a system administrator set a roaming profile? Describe how you set up roaming user profile. [4 marks]
- c) What do you understand by the term effective permission? Describe any four ntfs effective permissions that may apply to files or folders on a network. [4 marks]