



*(Knowledge for Development)*

**KIBABII UNIVERSITY**

**UNIVERSITY EXAMINATIONS  
2017/2018 ACADEMIC YEAR  
SUPPLEMENTARY EXAM  
END OF SEMESTER EXAMINATIONS  
YEAR ONE SEMESTER ONE EXAMINATIONS  
FOR THE DEGREE IN  
(INFORMATION TECHNOLOGY)**

**COURSE CODE: BIT322**

**COURSE TITLE: SYSTEM ADMINISTRATION AND  
MAINTENANCE**

**DATE: 16/10/2018**

**TIME: 3:00 P.M – 5:00 P.M.**

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**INSTRUCTIONS TO CANDIDATES**

**ANSWER QUESTIONS ONE AND ANY OTHER TWO.**

### QUESTION ONE

- a) Define the following terms (10 Marks)
- i) Server
  - ii) Client
  - iii) Patch
  - iv) Hotfix
  - v) Service pack
- b) You have recently joined ICT staff team of a leading regional bank. Your task is considering deploying new server machines as part of the institution's IT infrastructure upgrading: (12 Marks)
- i. List any five hardware specifications that are typical of server machines
  - ii. Discuss five roles characteristic of servers in such an organization
- c) What is content Management? [2 Marks]
- d) Discuss the benefits of having a content management system in an organization [6 Marks]

### QUESTION TWO

- a) State and explain any four types of web servers (8 Marks)
- b) What is virtualization (2 Marks)
- c) State and explain any four benefits of virtualization (8 Marks)
- d) Name any two Virtualization software [2 Marks]

### QUESTION THREE

- a) Define the following terms (9 Marks)
- i) Active directory
  - ii) User group
  - iii) Active directory domain
- b) State the procedure for adding a server roles on any windows server (9 Marks)
- c) What will the following command do in linux: apt-get install teamviewer [2 Marks]

### QUESTION FOUR

- a) Define file system (3 Marks)
- b) State and explain the three main objects in active directory (6 Marks)
- c) State and explain two methods of software deployment (6 marks)
- d) State any five reasons as to why most system administrators will prefer running their services on linux as compared to windows server [5 Marks]

### QUESTION FIVE

- a) State and explain five roles on Microsoft server 2012 [10 marks]
- b) What are the features of Microsoft server 2012 [4 Marks]
- c) State a procedure for scheduling a task in server 2012 [5 Marks]