

COLLEGE OF BUSINESS AND ECONOMICS JUNE 2019 EXAMINATION

DEPARTMENT OF APPLIED INFORMATION SYSTEMS

MODULE : COMMUNICATION NETWORKS 3A

CODE : CMN03A1

<u>DATE</u> : 1 JUNE 2019

DURATION : 2 HOURS

TIME : 830 AM

TOTAL MARKS : 100

EXAMINER : Mr T MUSEBA

EXTERNAL MODERATOR: Mr E.MTSWENI

NUMBER OF PAGES : 3 PAGES

INSTRUCTIONS TO CANDIDATES:

- Read the questions carefully
- Answer all questions
- Number your answers clearly
- Write neatly and legibly
- Structure your answers by using appropriate headings and subheadings
- The general University of Johannesburg policies, procedures and rules pertaining to written assessments apply to this assessment.

QUESTION ONE

1.1.	Discuss the challenges faced by Wireless Communications	[5]	
1.2.	What is Global System Mobile (GSM)? Discuss four (4) components of GSM	[5]	
1.3.	Discuss the rationale behind cellular systems	[5]	
1.4.	Discuss the advantages of Code Division Multiple Access (CDMA) over Frequen Division Multiplexing (FDMA)	су [5]	
	QUESTION TWO		
2.1. D	viscuss five (5) problems face by radio propagation	[5]	
2.2 What is Wireless Communication? Discuss the factors that led to the fast growth of wireless use			
2.3 Di	scuss the advantages of Evolution Data Optimzed over Wi-Fi	[5]	
2.4. D	iscuss the advantages of radio waves in radio propagation	[5]	
QUESTION THREE			
3.1. W syster	/hat is system administration? Discuss the characteristics of a well maintained m	[5]	
3.2. W	Vith the aid of examples, explain why Linux is a popular operating system	[5]	
3.3. D	escribe the functions of the following Linux directories:	[5]	
3.4. W System	/hat is an Operating System? State and describe the two main parts of an Operat m	ing [5]	

QUESTION FOUR

4.1. Describe the five (5) clients of OpenSSH	[5]		
4.2. Describe five [5] Samba Utilities in Linux	[5]		
4.3. Discuss the reasons why Wireless Communication is so popular	[5]		
4.4 Discuss the disadvantages of Wireless Networks when compared to fixed Networks [5]			
QUESTION FIVE			
5.1. Consider a Network File Sharing System such as SSH. Discuss two reasons motivate file sharing	that [5]		
5.2 When partitioning a hard disk on a production system, it is recommended to be separate partitions for such directories as /boot , /var and /home (amongst others). Disk why separate partitions for these directories are necessary			
5.3 Describe how OpenSSH works			
5.4 Discuss real world applications of Wireless and Mobile Communications	[5]		