

FACULTY OF MANAGEMENT DECEMBER 2014 SUPPLEMENTARY EXAMINATION

DEPARTMENT OF APPLIED INFORMATION SYSTEMS

MODULE : NETWORKS 4

CODE : BNW41-3

DATE : DECEMBER 2014

DURATION : 2 HOURS

TIME :

TOTAL MARKS : 100

EXAMINER : TINO MUSEBA

EXTERNAL MODERATOR: DR T. ZUVA

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

QUESTION ONE

1.1. Discuss five (5) critical success factors for Network Development Life Cycle (NDLC	C) [5]	
1.2. Describe the three phases of the Input-process-output (IPO) Model for Network Design tools	[5]	
1.3. Discuss the two types of Integrated Services Digital Network (ISDN)	[5]	
1.4. What is Broadband ISDN? Discuss three [3] services offered by broadband ISDN	[5]	
QUESTION TWO		
2.1. Discuss the concept of packed switched Networks and the services it offers	[5]	
2.2. X.25 is an oldest packet switched Service developed by ITU-T. Discuss the service offered by X.25	es [5]	
2.3. Describe the features of Asynchronous Transfer Mode (ATM)	[5]	
2.4 Discuss the merits and demerits of Frame Relay	[5]	
QUESTION THREE		
3.1 A customer agrees an SLA with a Frame Relay network provider. The agreed committed information rate is 256kbps and committed burst size is 6144 bytes. If network resources allow, the customer can burst for a further 2048 bytes. Determin the excess information rate	ne [5]	

3.2. Describe the types of Virtual Private Networks in use today	[5]
3.3. Discuss five [5] security threats and their protective measures	[5]
3.4. Discuss five [5] security design strategies for a network	[5]
QUESTION FOUR	
4.1. Discuss the goals of risk analysis	[5]
4.2. Describe five (5) intangible resources of the risk analysis process	[5]
4.3. Differentate between disaster recovery and business resumption	[5]
4.4 The process owner assembles and leads cross-functional team in the event of a disaster. Discuss five [5] roles played by the process owner	[5]
QUESTION FIVE	
5.1. What is cloud computing? Discuss three service models of cloud computing	[5]
5.2. Discuss the two types of virtual circuits offered by packet switched Networks	[5]
5.3. Discuss the two types of data rates offered by Virtual Circuits	[5]
5.4. Discuss the advantages and disadvantages of Asychronous Transfer Mode (ATM)) [5]