FINAL EXAM
SECOND SEMESTER SESSION 2011/2012

INSTRUCTIONS:
1. This question booklet contains THIRTEEN (13) structured questions. It has NINE (9) printed pages, excluding the cover page.
2. Answer ALL questions in the space provided.
3. You are NOT ALLOWED to remove the exam paper from the examination hall.

MATRIC NO. (with word) [with number]

IDENTIFICATION CARD NO.

LECTURER:

GROUP [ ] TABLE NO. [ ]

DO NOT OPEN THIS EXAMINATION PAPER UNTIL INSTRUCTED

CONFIDENTIAL
STIJ3143 LATEST ISSUES IN NETWORK

STRUCTURED QUESTIONS (100 MARKS)

1. Define terminologies of seven layers. (8 Marks)

2. Draw a diagram of Video conferencing Network  (8 Marks)
3. Define Transport Layer and Network Layer over network. (8 Marks)
4.  a. Explain the satellite orbit in detail? (4 Marks)

b. Define THREE (3) examples of Analog Voice Services. (4 Marks)
5. Explain the concepts of Ad-hoc On Demand Distance Vector (AODV) in Mobile Ad Hoc Network (MANET).

(8 Marks)

6. Draw the VoIP Networks System.

(8 Marks)
7. Give **THREE (3)** reasons why 4G services are needed? 

(8 Marks)

8. Discuss **THREE (3)** differences IPv4 compared with IPv6 protocol. 

(8 Marks)
9. The problems with VoIP audio quality are almost always related to network delay, jitter and packet loss. Explain briefly THREE (3) problems of VoIP audio quality. 

(12 Marks)

10. Draw the BSS and ESS diagram.

A. ESS

(8 Marks)
B. BSS
11. Define **TWO (2)** applications of WSNs.

   (8 Marks)
12. What are the sensors and provide 3 types of sensors? (4 Marks)

13. Explain the satellite frequency band? (4 Marks)

END OF QUESTIONS