



**NATIONAL OPEN UNIVERSTYOF NIGERIA,
University Village, 91 Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja
FACULTY OF SCIENCE
DEPARTMENT OFCOMPUTER SCIENCE
2020_1 EXAMINATION**

COURSE CODE: CIT 722

COURSE TITLE: COMPUTER NETWORKS

COURSE UNIT: 3 UNITS

TIME ALLOWED: 2 ½ Hrs

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER FOUR (4) QUESTIONS

1a: What were the problems encountered during the early communication and the solutions. 6 marks

1b What were the principles that were applied to arrive at the seven (7) layers of the OSI model? 5 marks.

1c Critically analyze the TCP/IP model. 3 marks

1d With the help of a well labeled diagram write briefly on the types of network. (8 mark)

2a Write briefly on each networking hardware used for setting up a small network. (7 marks)

2b With the aid of a diagram, describe a typical network. 5 marks

3a Explain how the data link accomplishes its task? 2 marks

3b With the help of diagram list and explain any four of the 7 layers of the OSI model (10 marks)

4a What are the advantages and disadvantages of peer-to-peer network? 4 marks

4b Describe the OSI model. 8 marks

5a State the advantages and disadvantages of the star topology.6 marks

5b Compare the OSI and TCP/IP in a tabular form 6 marks

6a List the five (5) common topologies and explain any three of them: 10 marks

6b State 4 benefits LAN technology offers to system users 2 marks