

# SOUTHWESTERN UNIVERSITY NIGERIA

KM 20, SAGAMU-BENIN EXPRESSWAY, OKUN OWA, IJEBU-ODE, OGUN STATE.

FACULTY OF PURE & APPLIED SCIENCES

DEPARTMENT OF COMPUTER SCIENCE

HND TO BSC CONVERSION PROGRAMME

2018/2019 THIRD SEMESTER EXAMINATIONS

**COURSE**            **CODE: CMP**            **426**    **COURSE**            **TITLE:**            Computer  
Networks/Communication

**INSTRUCTION:** Answer question 1, and any other 3 questions.            **TIME:**  
2hrs

1.    (a) Explain briefly the relevance of networks in our environment.  
      (b) List and explain types of network by scope  
      (c) Discuss the 7(sevens) layers of the OSI model  
      (d) Discuss the DOD model briefly
  
2.    (a) Discuss the following network cables  
      (i) Copper twisted cable            (ii) Coaxial cable            (iii) Fiber optic cable.  
      (b) State advantages and disadvantages of copper twisted pair cable  
      (c) Differentiate UDP and TCP  
      (d) Differentiate broadcast and frontprint networks
  
3.    (a) Discuss the term Network Topology  
      (b) List and explain with the aid diagram of network Topology types  
      (c) Discuss the term Network protocols  
      (d) Differentiate between Application layer protocols and Transport layer protocols  
with examples in each case.
  
4.    (a) Explain data switching technoques  
      (b) Explain with the aid of diagrams, the following switching technowues.  
          (i) Circuit switching  
          (ii) Packet switching  
      (c) Why OS switching necessary in communication  
      (d) What is a virtual circuit, how dow it differ from circuit switching?
  
5.    (a) What are distributed systems.  
      (b) State five(5) properties of distributed systems.  
      (c) Distinguish between serial & parallel transmission of data communication  
      (d) Calculate the number of hosts per Network for classes A, B, C Network