NAME: OPANY DAVID

REG NO. SCT212-0079/2021

COURSE: BSC COMPUTER TECHNOLOGY

UNIT: NETWORK SYSTEM &ADMINISTRATION

UNIT CODE : BCT2204

CAT 1

The OSI (Open System Interconnection) and TCP/IP model (Transmission Control Protocol Model) are two different conceptual Frameworks used to understand and standardize the function protocol

SIMILARITIES

DATA ENCAPSULATION : both models involves data encapsulation, where data is wrapped with headers and trailers at each layer as it moves down the stack

INTEROPERABILITY : both models aim to enable interoperability among different networking technologies and devices by defining standardized protocols at each layer.

LAYER APPROACH :Both models are based on a layered approach to networking where each layer performs specific functions and communication

DIFFERENCES

1. NUMBER OF LAYERS

OSI model consist of seven layers I.e physical layer, data link layer, network layer transport layer, Session layer, Presentation layer and Application layer while TCP/IP consist of five layers

1. LAYERS NAMES AND FUNCTION

The layers in the OSI model have distinct names and more specific functions while IP model has more straightforward and functional names

1. REAL WORLD USAGE

The OSI model is more of a theoretical model isn’t as commonly used in practice for network design and troubleshooting