211064

Air University
(Mid-Term Examination: Fall 2021)
Department of Cyber Security

Subject: Intro to ICT
Course Code: CS180
Class: BS-CYS Fall 21
Section: A-B

Total Marks: 30
Date: Nov 12, 2021
Duration: 2 Hours
FM Name: Zia Muhammad

Answer all questions.

Q. No	Questions	Marks	CLO
1	a. Assad wants to communicate with Isaam about the scheduled ICT class. What would be the communication process? Draw and elaborate necessary components, Mod of message transmission, and communication channel. b. You have to configure a printer with 5 computers in the networks lab, in such a way that every computer has access to print documents. What kind of network topology is effective to optimize expense and efficiency? Explain with the help of a network diagram.	(2*5=10)	4
2	a. Perform following conversions elaborating all necessary steps. I. Convert $(409)_{10}$ Into hexadecimal. 199 II. Convert $(038)_8$ Into decimal. 32 III. Convert $(C09)_{16}$ Into binary. ₹ 1000000001 IV. Convert $(8B5)_{16}$ Into octal. 04265 V. Convert $(101101)_2$ Into Hexadecimal. 02D b. Define these terminologies with an example: I. ISP II. WWW III. HTTP(s) IV. URL V. IP	(2*5=10)	3
3	a. What Operating System does? Explain its four key responsibilities. b. Write a short note on simplex, half-duplex, and full-duplex transmission modes with an example and diagram.	(2*5=10)	3

**************** End of Examination Paper ********************