



Air University

(Final Examination: Fall 2023) Department of Cyber Security

Subject: Application of Information and Communication

Technologies

HoD

Course Code: CS181 Class: BSCYS-Fall 23

enhance the clarity of your diagram.

Section: A & B

231310

TotalMarks: 80

Date: 10-10-2024 11-01-2024

Duration: 3 Hours FM Name: Jameel Arif

Q. No	Questions	Marks	CLO	
1.	Using a well-labeled diagram describe the functional components of a Computer System to elaborate information processing cycle with the help of an example.	20	1	
2.	Make the following conversions. A a. (AFCB8D) base 16 to base 10 b. (0111010) base 2 to base 10 c. (76567) base 8 to base 2 d. (876543) base 10 to base 8 B. a. (323232) is a base 32 number convert it to Hexadecimal number	20+10	2	
3.	Draw the hierarchy of Programming languages with respect to their complexity from more	10	3	
3.	complex to easier. Compare and contrast the OSI model and the TCP/IP model in terms of their architectural layers and key functionalities. Create a labeled diagram that visually represents the mapping between the layers of the OSI model and the TCP/IP model. Clearly illustrate the similarities between the layers of the womodels, and provide concise explanations for each layer's role and differences between the two models, and provide concise explanations for each layer's role and the protocols associated with them. Use appropriate symbols, labels, and annotations to	20	3	