ALLAMA IQBAL OPEN UNIVERSITY, ISLAMABAD

**(Department of Computer Science)**

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| **WARNING**   1. **PLAGIARISM OR HIRING OF GHOST WRITER(S) FOR SOLVING THE ASSIGNMENT(S) WILL DEBAR THE STUDENT FROM THE AWARD OF DEGREE/CERTIFICATE IF FOUND AT ANY STAGE.** 2. **SUBMITTING ASSIGNMENT(S) BORROWED OR STOLEN FROM OTHER(S) AS ONE’S OWN WILL BE PENALIZED AS DEFINED IN THE “AIOU PLAGIARISM POLICY”.** |

Course: Applications of Information and Communication Technologies (9384)

Level: Bachelor Level Semester: Spring, 2025

**[Please read the following instructions for writing your assignments.   
(SSC, HSSC & BA Programmes)](mailto:zahid_majeed@aiou.edu.pk" \t "_blank)**

1. [All questions are compulsory and carry equal marks but within a question the marks are distributed according to its requirements.](mailto:zahid_majeed@aiou.edu.pk" \t "_blank)
2. [Read the question carefully and then answer it according to the requirements of the question.](mailto:zahid_majeed@aiou.edu.pk" \t "_blank)
3. [Late submission of assignments will not be accepted.](mailto:zahid_majeed@aiou.edu.pk" \t "_blank)
4. [Your own analysis and synthesis will be appreciated.](mailto:zahid_majeed@aiou.edu.pk" \t "_blank)
5. [Avoid irrelevant discussion/information and reproducing from books, study guide or allied material.](mailto:zahid_majeed@aiou.edu.pk" \t "_blank)

**Total Marks: 100 Pass Marks: 50**

**ASSIGNMENT No. 1**

**(Units: 1–5)**

Q. 1 What are the main components of a system unit, and how do they contribute to the functioning of a computer? **(20)**

Q. 2 What are the primary functions of an operating system, and why is it considered an essential part of system software? **(20)**

Q. 3 How do productivity tools like Microsoft Office and Google Workspace enhance work efficiency and collaboration? **(20)**

Q. 4 What are the key differences between an assembler, a compiler, and an interpreter, and when is each used in programming? **(20)**

Q. 5 What are the different types of network topologies, and how do they impact data communication efficiency? **(20)**

**Total Marks: 100 Pass Marks: 50**

**ASSIGNMENT No. 2**

**(Units: 6–9)**

Q. 1 How does Artificial Intelligence contribute to improving the quality and accessibility of education? **(20)**

Q. 2 What role does telemedicine play in modern healthcare, and what are its primary benefits and challenges? **(20)**

Q. 3 How can individuals protect their financial information and ensure cyber security during online financial transactions? **(20)**

Q. 4 What is digital identity and what steps can individuals take to protect their privacy in the digital age? **(20)**

Q. 5 How can individuals uphold ethical practices in the use of digital technologies while addressing privacy concerns and navigating misinformation in the online world? **(20)**

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