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”.**
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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)**

1. All questions are compulsory and carry equal marks but within a question the marks are distributed according to its requirements.
2. Read the question carefully and then answer it according to the requirements of the question.
3. Late submission of assignments will not be accepted.
4. Your own analysis and synthesis will be appreciated.
5. Avoid irrelevant discussion/information and reproducing from books, study guide or allied material.

**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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