SHRI RAMSWAROOP MEMORIAL UNIVERSITY
PROBLEM SET – II

Session	: 2024-25(Even Sem.)	**Semester**	: IV
Course	: BCA/B.Sc IT	**Subject Code**	: UCS 4002
Branch	: ALL	**Subject Name**	: Software Engineering
Group	ALL	**Name of Faculty Member**	:Er.Amit kumar Singh, Er. Raghuveer Sachan,Er. Shilpi Shukla
Unit	: II	**Topic Covered**	: Software Requirement Specifications (SRS).

1. What is the significance of Software Requirement Specifications (SRS) in the software development process?

2. Explain the key components of an SRS document and their roles in defining software requirements.

3. How does requirement analysis contribute to the development of a successful software project?

4. Describe the steps involved in the elicitation phase of the Requirement Engineering process.

5. Why is documentation crucial in Requirement Engineering, and what challenges might arise in the documentation process?

6. Compare and contrast data flow diagrams (DFD) and entity-relationship diagrams (ERD) in the context of information modeling.

7. How do IEEE standards contribute to the standardization and quality of SRS documents?

8. Differentiate between verification and validation in the context of SQA.

9. Discuss the significance of ISO 9000 models in software quality assurance.

10. Why is traceability important in an SRS document, and how is it maintained throughout the development process?

Supplementary Questions: -

1. What role does the SRS document play in the software development life cycle?.

2. Explain the key features of the SEI-CMM model and its role in improving software development processes.

Text / Reference Books:
1. Rajib Mall, "Fundamentals of Software Engineering", Third Edition, PHI, 2006 .

2. K. K. Aggarwal and Yogesh Singh, Software Engineering, New Age International Publishers.

(Signature of the Faculty Member with date)   (Signature of the Dean with date)