Seat. No. _____

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BE SEMESTER-V Examination October-2023

SUBJECT CODE: CT501-N   SUBJECT NAME: SOFTWARE ENGINEERING

DATE: 26/10/2023   TIME: 12.00 P.M. to 03:00 P.M.   TOTAL MARKS: 70

Instructions:
1. Answer each section in separate answer sheet.
2. Use of scientific calculator is permitted.
3. All questions are Compulsory.
4. Indicate clearly, the option you attempt along with its respective question number.
5. Use the last page of main supplementary of rough work.

Section-I

Q-1 (A) Explain "Software is Developed or Engineered; It is not Manufactured ". [5]

(B) What is Agility? Explain an Agile Process in detail. [5]

(C) Explain unique nature of Webapps in detail. [5]

OR

(C) Describe Waterfall Model briefly. [5]

Q-2 (A) Write a short note on Refactoring and Refinement. [5]

(B) Explain Requirement Elicitation Techniques for Requirements Gathering. [5]

OR

Q-2 (A) Prepare a DFD up to level 2 for Satellite Imagery Analysis. [5]

(B) Explain Architecture, Patterns and Modularity in details. [5]

Q-3 (A) Explain Negotiating Requirements and Validating Requirements. [5]

(B) Explain Adaptive Software Development (ASD) and Scrum. [5]

OR

Q-3 (A) Explain various Coding Standards. [5]

(B) Explain Interface Design Elements and Deployment Level Design Elements. [5]

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Section-II

Q-4 **(A)** What do you mean by Risk? Explain all type of Software Risk. [5]

(B) Distinguish between Quality Assurance and Quality Control. [5]

(C) What is Software Testing? What is the role of Software Tester? Compare: Black box [5]
testing and White box testing?

OR

(C) Differentiate between Alpha testing and Beta testing. [5]

Q-5 **(A)** Explain Software Scope and Feasibility in detail. [5]

(B) Explain ISO 9000 Quality Standards. [5]

OR

Q-5 **(A)** Draw an E-R diagram that describes data objects, relationships and attributes for [5]
Expense Tracker System.

(B) Explain the General Project Estimation Approach. [5]

Q-6 **(A)** What is Risk management? Explain RMMM plan for any project. [5]

(B) Explain all the characteristics of good SRS. [5]

OR

Q-6 **(A)** Explain Risk projection and Risk mitigation in details. [5]

(B) Short note: Software Engineering Trends. [5]