C. U. SHAH UNIVERSITY
Winter Examination 2019

Subject Name: **Software Engineering-I**

Subject Code: **4CS05SWE1**   Branch: **M. Sc. C.A. & I.T. (Integrated)**

Semester : 5   **Date : 14/10/2019**   **Time : 02:30 To 05:30**   **Marks : 70**

Instructions:
   (1) Use of Programmable calculator and any other electronic instrument is prohibited.
   (2) Instructions written on main answer book are strictly to be obeyed.
   (3) Draw neat diagrams and figures (if necessary) at right places.
   (4) Assume suitable data if needed.

Q. 1 Attempt all questions.

A	Explain Software as a Product	**3**
B	What is the difference between Verification and Validation?	**3**
C	Explain Software Engineering as a Layered Technology.	**3**
D	What is SDLC?	**3**
E	What is Security testing?	**2**

ATTEMPT ANY FOUR QUESTIONS FROM Q. 2 TO Q. 8

Q. 2   Attempt all questions.

a)	Explain 4 P's of Effective Project Management in detail.	**7**
b)	Write a note on COCOMO Model.	**7**

Q. 3   Attempt all questions.

a)	Define Software Engineering. Draw and explain Software Engineering layers.	**7**
b)	Explain type of Software risk.	**7**

Q. 4   Attempt all questions.

a)	Prepare DFD for Employee Attendance System.	**7**
b)	Explain Prototype model and compare it with Water Fall process model.	**7**

Q. 5   Attempt all questions.

a)	Explain Alpha and Beta Testing in detail.	**7**
b)	Explain Unit Testing and Integration Testing in detail.	**7**

Q. 6   Attempt all questions.

    a) Write note Software Requirement Specification (SRS). **7**

    b) Write note on Object Oriented Analysis. **7**

Q. 7 Attempt all questions.

    a) Explain RAD Process Model. **7**

    b) What is Risk Management? Explain RMMM plan. **7**

Q. 8 Attempt all questions.

    a) Explain Cohesion and Coupling for Software Design. **7**

    b) Compare: Black Box Testing and White Box Testing. **7**