SAKET COLLEGE OF ARTS,SCIENCE AND COMMERCE, KALYAN (EAST)
T.Y.B.SC (CS) SEMESTER VI PRELIMINARY EXAM MARCH 2018
SUBJECT: Software Engineering And Testing

TIME : $2^{1/2}$ HOURS **MARKS : 75**

NOTE: 1) ALL QUESTIONS ARE COMPULSORY.
2) DRAW NEAT LABELLED DIAGRAMS WHEREVER NECESSARY.
3) ALL QUESTIONS CARRY EQUAL MARKS.

Q1. Attempt Any Three. **[15]**

a) What is software? What are different types of software?
b) Write a short note on software myths.
c) Define software Engineering. Give different software Engineering process.
d) Write a short note on software component and characteristics?
e) Explain RAD Model in detail.
f) Give advantages and disadvantages of spiral model.

Q2. Attempt Any Three . **[15]**

a) Write a short note on software requirement engineering process?
b) What is SRS? What are the characteristics of SRS?
c) Explain verification and validation in detail.
d) Define Quality. Explain software quality assurance.
e) Explain reliability growth modeling in detail.
f) What is the roll of decision table in SRS?

Q3. Attempt Any Three. **[15]**

a) Write a short note on System Design.
b) Explain Coupling and Cohesion in detail.
c) How we can monitor and control for system design?
d) What are different testing principles?
e) Differentiate between White box and Black box testing.
f) Write a short note on Cyclomatic Complexity.

Q4. Attempt Any Three. **[15]**

a) How CASE Support in Software Life Cycle?
b) What are the objective of CASE?
c) Give the advantages and disadvantages of CASE Tools
d) Write a Short note on 4^{th} Generation Techniques.
e) Explain Software Re-engineering in details.
f) What is Reverse Software & Explain.

Q5. Attempt Any Three. **[15]**

a) Compare Waterfall model with Prototyping model.
b) Write a short note on SDLC.
c) Draw DFD for “Airline Ticket Booking” System.
d) What are different objectives of testing?
e) What is CASE?Explain its scope.
f) Define Software Testing. Explain its types.