



***Ahmedabad Institute of Technology***

***CE Department***

**Software Engineering (3150711)**

**Question Bank**

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# AHMEDABAD INSTITUTE OF TECHNOLOGY

	Unit – 5,6,7,9
1	Explain different design Concepts in details.
2	Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules.
3	What is software <b>architecture</b> ? Explain any two architectural styles of software.
4	Explain <b>the Golden Rules for</b> User interface design. Which process model is used to design user interface explain with diagram.
5	Consider the program given below. <pre>void main() { int i,j,k; readln (i,j,k); if( (i &lt; j)    ( i &gt; k) ) { writeln("then part");if (j &lt; k) writeln ("j less then k"); else writeln ( " j not less then k"); } Else writeln( "else Part"); } (i) Draw the flow graph. (ii) Determine the cyclomatic complexity. iii) Arrive at all the independent paths.</pre>
6	List set of guidelines for BVA.Also Explain merits and demerits of BVA.
7	What are the different levels of testing? Briefly discuss the goal of each level.
8	Explain concept of test case.(Refer to technical publication page 6-36,6-37 section -6.10,6.10.1)
9	What is <b>Software Testing</b> ? What is the role of a Software Tester? Compare: Black Box Testing and White Box Testing.
10	Write short note on Six Sigma standard.
11	Define Quality for software. List and explain SQA activities.
12	Compare: Quality Control Vs. Quality Assurance.
13	Define the terms. i) Data Dictionary ii) Software Quality Assurance iii) Cardinality, Modality
14	Explain the importance and benefits of DevOps
15	Explain the <b>7C's of DevOps</b> lifecycle
16	What are the Challenges in Application Development and benefits of fixing them.