

# Government Science College, Valod

Third Year B.Sc. ( Computer Science) Semester-5

**Subject: Software Engineering-1**

**Unit-1**

## Assignment Question & Answers

<b>Que.</b>	<b>What is Software Process?</b>
<b>Ans.</b>	<p>A process is a collection of activities, actions, and tasks that are performed when some work product is to be created.</p> <p>In Software Engineering, a Process defines a framework that must be established for effective delivery of software engineering technology.</p> <p>The software process forms the basis for management control of software projects and establishes the context in which technical methods are applied, work products (models, documents, data, reports, forms, etc.) are produced, milestones are established, quality is ensured, and change is properly managed.</p>
<b>Que.</b>	<b>Justify “Software is Maintainable”.</b>
<b>Ans.</b>	<p>As the perceived value of a specific application grows, the likelihood is that its user base and longevity will also grow. As its user base and time-in-use increase, demands for adaptation and enhancement will also grow. It follows that software should be maintainable.</p>
<b>Que.</b>	<b>Difference between Software and Software Engineering.</b>
<b>Ans.</b>	<p>Computer software is the product that software professionals build and then support over the long term. It encompasses programs that execute within a computer of any size and architecture, content that is presented as the computer programs execute, and descriptive information in both hard copy and virtual forms that encompass virtually any electronic media.</p> <p>Software engineering encompasses a process, a collection of methods (practice) and an array of tools that allow professionals to build high quality computer software.</p>
<b>Que.</b>	<b>Describe Umbrella Activities</b>
<b>Ans.</b>	<p>Umbrella activities are applied throughout a software project and help a software team manage and control progress, quality, change, and risk. Typical umbrella activities include:</p> <ol style="list-style-type: none"><li>1. Software project tracking and control</li><li>2. Risk management</li><li>3. Software quality assurance</li><li>4. Technical reviews</li><li>5. Measurement</li><li>6. Software configuration management</li><li>7. Reusability management</li><li>8. Work product preparation and production</li></ol>
<b>Que.</b>	<b>What is the goal of Software Engineering.</b>
<b>Ans.</b>	<p>(1) The application of a systematic, disciplined, quantifiable approach to the development,</p>

	operation, and maintenance of software; that is, the application of engineering to software. (2) The study of approaches as in (1). The establishment and use of sound engineering principles in order to obtain economically software that is reliable and works efficiently on real machines. OR
<b>Que.</b>	<b>Describe Software Quality.</b>
<b>Ans.</b>	<p>Though Software works correctly according to requirement specifies. It should provide following features to improve quality of software.</p> <ul style="list-style-type: none"> <li>✓ <b>Portability</b> Work on different hardware &amp; OS Easily interface with external devices</li> <li>✓ <b>Usability</b> Different categories of user can easily use the software</li> <li>✓ <b>Reusability</b> Different modules can be easily reused to develop new software</li> <li>✓ <b>Correctness</b> SRS must correctly implemented</li> <li>✓ <b>Maintainability</b> Errors can be easily corrected New functionality added or modified easily.</li> </ul>
<b>Que.</b>	<b>Define Software and Software Engineering.</b>
<b>Ans.</b>	<p><b>Software :</b> (1) instructions (computer programs) that when executed provide desired function and performance, (2) data structures that enable the programs to adequately manipulate information, and (3) documents that describe the operation and use of the programs.</p> <p><b>Software Engineering:</b> (1) The application of a systematic, disciplined, quantifiable approach to the development, operation, and maintenance of software; that is, the application of engineering to software. (2) The study of approaches as in (1).</p>
<b>Q-2</b>	<b>Answer in details:</b>
1.,6., 7.	SE By Roger Pressman Page No.5 point No. 2
2.	SE By Roger Pressman Page No.16 Second Paragraph onwards.
3., 8.,	Search your Self.
4.	SE By Roger Pressman Page No.7 Section 1.1.2 Software Application Domain
5., 9., 10.	Take Snapshot from My Book.