1. Attempt any FIVE of the following: [10]
   (a) Define software Quality Assurance and software Quality Control.
   (b) Difference between white box and black box testing.
   (c) Enlist any four the benefits of Test Plan.
   (d) Explain load testing.
   (e) Enlist different types of defect classification.
   (f) Write any four limitations of Manual Testing.
   (g) Define following terms-Failure, Error, Defect and Bug.

2. Attempt any THREE of the following: [12]
   (a) With the help of neat diagram, describe unit testing.
   (b) Differentiate between Drivers and Stub (any four points).
   (c) Explain Equivalence partitioning with respect to equivalence classes.
   (d) State the Advantages and Disadvantages of using testing tools.

3. Attempt any THREE of the following: [12]
   (a) What do you mean by Software Metrics? List any three types of metrics.
   (b) Explain Client-Server testing.
   (c) Draw Defect Management Process. State the working of each phase.
   (d) State any four points of comparison between Static analysis tools and Dynamic analysis tools.

4. Attempt any THREE of the following: [12]
   (a) Describe the Integration Testing.
   (b) Prepare and write six test cases for simple calculator application.
   (c) Explain the Test Management with Test Infrastructure management and Test People Management.
   (d) Give comparison between Alpha testing and Beta testing. (any four points)
   (e) Describe V-model with labelled diagram. State its any two advantages and disadvantages. Also write where it is applicable.

5. Attempt any TWO of the following: [12]
   (a) Design test cases for the data filed from Admission form of your institute (Data filed are Name, SSC percentage, Adhar no, Address, mobile no)
   (b) Explain defect life cycle to identify status of defect with proper labelled diagram.
   (c) Describe use of load testing and stress testing to test online result display facility of MSBTE website.
6. Attempt any TWO of the following:
   (a) Design test cases for MSBTE Online Exam form filling (any valid six test cases)
   (b) Prepare a Test Plan along with the Test Cases for the MS Word option 'Save As'.
       Test Cases should be at least six.
   (c) Design any three test cases for railway reservation form and prepare defect report
       of it.

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**T.Y. Diploma Sem-V: Paper Discussion Schedule**

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<tr>
<th>Branches</th>
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<th>Timing</th>
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<tr>
<td>Computer Group</td>
<td>6 Nov. 2019</td>
<td>Wednesday</td>
<td>10 a.m. to 11 a.m.</td>
<td>Thane</td>
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