

**N.B. :** (1) All questions are compulsory.

(2) Make suitable assumptions wherever necessary and state the assumptions made.

(3) Answers to the same questions must be written together.

(4) Numbers to the right indicate marks.

(5) Draw neat labeled diagrams wherever necessary.

(6) Use of Non-programmable calculators is allowed.

1. Attempt the following (any TWO) [10]
  - (a) Define software testing. Explain objectives of testing.
  - (b) Explain fundamental test process.
  - (c) Define software quality. Explain quality parameters of software.
  - (d) Explain psychology of testing.
2. Attempt the following (any TWO) [10]
  - (a) Explain levels of testing used in V-model.
  - (b) Explain testing related to changes i.e. confirmation & Regression.
  - (c) Explain functional & non-functional testing.
  - (d) Explain Agile model.
3. Attempt the following (any TWO) [10]
  - (a) Explain phases of review process.
  - (b) Explain success factors of review process.
  - (c) Explain goals & characteristics of walk through.
  - (d) Explain static analysis by tools.
4. Attempt the following (any TWO) [10]
  - (a) Explain Equivalence partitioning and boundary value analysis.
  - (b) Explain state transition based testing.
  - (c) Explain decision table based testing.
  - (d) Explain statement coverage and path coverage with respect to WBT.
5. Attempt the following (any TWO) [10]
  - (a) Explain role of responsibilities of test leader in an organization.
  - (b) Explain test strategies of approaches.
  - (c) Explain incident report life cycle.
  - (d) Explain risk based testing and project v/s product risk
6. Attempt the following (any TWO) [10]
  - (a) Explain potential benefits of risk of using tools.
  - (b) Describe the features of test management tools.
  - (c) Explain requirement management tools.
  - (d) Describe the features of Test design of test execution tools.
7. Attempt the following (any THREE) [15]
  - (a) Explain the term "testing is not debugging".
  - (b) Explain Alpha & beta testing.
  - (c) Explain roles of responsibilities of moderator, reviewer of author in review process.
  - (d) Explain experience based testing.
  - (e) Explain roles of resp. of tester in an organization.
  - (f) Describe the features of configuration management of incident management tools.

**Paper Discussion Schedule for all Subjects**

<b>Date</b>	<b>Day</b>	<b>Timing</b>	<b>Centre</b>
5 Nov.2016	Saturday	9.00 a.m. to 11.00 a.m.	Ghatkopar
5 Nov.2016	Saturday	12.00 p.m. to 2.00 p.m.	Thane
5 Nov.2016	Saturday	3.00 p.m. to 5.00 p.m.	Dombivli
6 Nov.2016	Sunday	9.00 a.m. to 11.00 a.m.	Dadar
6 Nov.2016	Sunday	12.00 p.m. to 2.00 p.m.	Andheri
6 Nov.2016	Sunday	3.00 p.m. to 5.00 p.m.	Borivali
7 Nov.2016	Monday	9.00 a.m. to 11.00 a.m.	Nerul

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