

- 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 the terms error, bug defects, failure and fault.
(b) What are the causes of software defects?
(c) State and explain the principles of software testing.
(d) Explain psychology of testing.
2. Attempt the following (any **TWO**) [10]
(a) Describe the purpose of confirmation testing and regression testing.
(b) With the help of diagram explain V Model.
(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 the goals of technical review.
(d) Define exit criteria in software testing. What is its purpose? Write few examples of exit criteria.
4. Attempt the following (any **TWO**) [10]
(a) Explain Equivalence Class Partitioning and BVA (Boundary Value Analysis).
(b) Compare Black Box Testing and White Box Testing.
(c) Explain state transition based testing.
(d) Explain the testing technique which is used when there is no specification, or if the specification is inadequate or out of date.
5. Attempt the following (any **TWO**) [10]
(a) What are the skills that are needed for the test leader? Discuss.
(b) Explain test strategies of approaches.
(c) Explain incident report life cycle with help of an example.
(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) Explain Dynamic analysis tools used for Performance Monitoring.
(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 with reference to acceptance testing.

- (c) Explain roles of responsibilities of moderator, reviewer of author in review process.
- (d) What are the purposes of Test Monitoring?
- (e) Postal rates of 'light letters' are 25p up to 10g, 35p up to 50g plus an extra 10p for each additional 25g up to 100g. Design test case for weight of the letters using equivalence partitioning.
- (f) Define test scripts. Explain briefly advanced scripting techniques for test execution tools.

Paper Discussion Schedule for all Subjects

Date	Day	Timing	Centre
23 Oct. 2017	Monday	5.00 p.m. to 7.00 p.m.	Nerul
24 Oct. 2017	Tuesday	9.00 a.m. to 11.00 a.m.	Ghatkopar
24 Oct. 2017	Tuesday	12.00 p.m. to 2.00 p.m.	Thane
24 Oct. 2017	Tuesday	3.00 p.m. to 5.00 p.m.	Dombivli
25 Oct. 2017	Wednesday	9.00 a.m. to 11.00 a.m.	Dadar
25 Oct. 2017	Wednesday	12.00 p.m. to 2.00 p.m.	Andheri
25 Oct. 2017	Wednesday	3.00 p.m. to 5.00 p.m.	Borivali

