

B.Tech. SEM -V Info. Tech. 2014 Course (CBCS) : WINTER - 2018
SUBJECT : ELECTIVE – I: SOFTWARE TESTING & QUALITY ASSURANCE

Day : Saturday
Date : 01/12/2018

W-2018-2416

Time : 02.30 PM TO 05.30 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labeled diagrams **WHEREVER** necessary.
- 4) Assume suitable data if necessary.

Q.1 Differentiate between verification and validation activities in testing. Also, [10]
describe the benefits of early testing in a project.

OR

Draw and explain each phase of Software Testing Life Cycle (STLC) in detail.

Q.2 What do you understand by the term 'functional testing'? Also explain the [10]
difference between functional testing and non-functional testing with suitable
example.

OR

Explain the following Black Box techniques with example:

- a) Boundary value analysis b) Equivalence class testing

Q.3 Define the term test case. Design at least 10 test cases for e-commerce website [10]
covering functional working of e-commerce.

OR

What is the need of white box testing? Describe statement coverage, branch
coverage and path coverage with respect to dynamic white box testing.

Q.4 What are the stages of inspection process? How does the rate of inspection [10]
affect the effectiveness of the inspection process?

OR

What are the advantages of static testing as compared to dynamic testing?
Describe types of static black testing in brief.

Q.5 What is performance testing? Differentiate between load and stress testing. [10]

OR

Explain usability and accessibility testing of website testing.

Q.6 Describe all levels of capability maturing model (CMM). [10]

OR

What is the difference between quality management and project management?
List the various activity under both.