

B.Tech. SEM -VII Info. Tech. 2014 Course (CBCS) : WINTER - 2018

SUBJECT: SOFTWARE TESTING

Day: Wednesday

Time: 02.30 PM TO 05.30 PM

Date: 28/11/2018

W-2018-2564

Max. Marks: 60

N.B:

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q1 How does testing helps in producing good software? Differentiate between effective and exhaustive testing. **(10)**

OR

Q1 Write the difference between: **(10)**
i) White box testing and black box testing
ii) Verification testing and validation testing

Q2 Describe the concept of traceability matrix and its benefits. How traceability matrix helps to track functionality of software under testing? **(10)**

OR

Q2 Define the term Test case. Also, write at least 10 test cases for traffic signal. **(10)**

Q3 What is compatibility testing? Describe the types of compatibility testing with suitable example. **(10)**

OR

Q3 Explain how performance testing can be carried out for website? Also, discuss the stress and load testing for website. **(10)**

Q4 Explain following terms: **(10)**
i) Software Reliability
ii) Software Quality Metrics

OR

Q4 Compare and contrast three measurement scales type : Nominal, Ordinal and Interval scale with proper examples. **(10)**

Q5 Explain how software code inspection will helps to detect bugs at the early phase of development? **(10)**

OR

Q5 Define the term Software Metrics. Discuss the need of process and product Metrics for testing the software. **(10)**

Q6 Write the difference between manual and automation testing? Write test cases for testing mouse of the computer **(10)**

OR

Q6 What is automation testing? How do you identify the test cases which are suitable for automation? **(10)**