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**Question Paper Code : X 60740**

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Sixth/Seventh Semester

Computer Science and Engineering

IT 2032/IT 702/10144 CSE 15/10177 ITE 24 – SOFTWARE TESTING

(Common to Information Technology)

(Regulations 2008/2010)

(Also Common to PTIT 2032/10144CSE15 – Software Testing for B.E. (Part-Time)  
Fifth/Sixth Semester –CSE– Regulations 2009/2010)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

**(10×2=20 Marks)**

1. What is a test case ? What are the information it contains ?
2. Differentiate verification and validation.
3. Differentiate black box and white box testing strategy.
4. Define program prime.
5. What is the need for levels of testing ?
6. Define test harness.
7. What role do users/clients play in the development of test plan for a project ?
8. Define test log.
9. Define review and its type.
10. What is the scope of automation ?



11. a) Explain the software testing principles. **(16)**  
(OR)  
b) Write the origin of defect, also explain the examples of defect with the coin problem. **(16)**
12. a) i) Explain positive and negative testing in detail with an example. **(8)**  
ii) Compare and contrast between static testing and structural testing with an example. **(8)**  
(OR)  
b) Write note on the following with an example : **(4×4)**  
i) Smarter test  
ii) Decision tables  
iii) Code complexity testing  
iv) Desk checking.
13. a) i) Write the importance of integration testing and what are the consequences of integration breaches, also write the various areas which has to be focused on during integration testing. **(10)**  
ii) Differentiate Alfa and Beta testing in detail. **(6)**  
(OR)  
b) Develop a use case to describe a user purchase of a laptop with credit card from online vendor using web based software. With use case, design a set of tests you would use during system test (general). **(16)**
14. a) Explain the components of a Test plan. **(16)**  
(OR)  
b) i) Write any four IEEE recommended test related documents in detail. **(8)**  
ii) Write the various technical skills needed by a test specialist. **(8)**
15. a) Explain about SCM and its activities. **(16)**  
(OR)  
b) Explain the five steps in software quality metrics methodology adopted from IEEE standard. **(16)**
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