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**Question Paper Code : X10646**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2021

Sixth Semester

Information Technology

IT8076 – SOFTWARE TESTING

(Common to : Computer Science and Engineering/Computer and Communication Engineering)

(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

**(10×2=20 Marks)**

1. Mention the relationship between testing effectiveness and the quality of software system.
2. Who is called as a Test Specialist ?
3. Give the diagrammatic representation of various components of engineered processes.
4. What is code complexity testing ?
5. Brief the importance of test plan in software testing.
6. List the features of risk matrix test tool.
7. Mention few aspects of software program which can be validated by performance testing.
8. Give short note on cost estimation.
9. List various productivity metrics in software testing.
10. What are the various challenges in automation ?

**PART – B****(5×13=65 Marks)**

11. a) i) Discuss in detail about various types of testing axioms. **(5)**  
ii) Discuss in detail Tester's role in software development organization. **(8)**  
(OR)
- b) i) Explain in detail about software testing principles. **(5)**  
ii) Elaborate on various defect classes with examples. **(8)**
12. a) Mention at least four test case design strategies and explain them in detail. **(13)**  
(OR)
- b) Discuss below testing methods with examples.
- i) Compatibility Testing. **(4)**  
ii) User documentation Testing. **(3)**  
iii) Domain Testing. **(3)**  
iv) Random Testing. **(3)**
13. a) Discuss in detail about various levels of testing along with planning and designing test cases in each one of them. **(13)**  
(OR)
- b) Write a short note on below testing methods :
- i) Alpha Testing **(3)**  
ii) Beta Testing **(3)**  
iii) OO Testing **(3)**  
iv) Website Testing. **(4)**
14. a) Explain in detail about the organization structures of testing teams in single product and multi product companies along with their advantages. **(13)**  
(OR)
- b) Elaborate different tools and techniques used for testing a software. **(13)**



15. a) Explain the structure of test group with component wise testing team ? **(13)**

(OR)

b) Discuss in detail about test metrics and measurements with a neat diagram of metrics life cycle. **(13)**

PART – C

**(1×15=15 Marks)**

16. a) Differentiate end to end testing and functional testing. When to apply end to end testing and detail various methods of end to end testing. **(15)**

(OR)

b) Discuss in detail the testing methodology which validates software system against functional requirements and specifications. Also explain the complete process with a neat diagram. **(15)**

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