SEAT No. :

P-6562

[6181]-112

B.E. (Computer)

SOFTWARE TESTING AND QUALITY ASSURANCE

(2019 Pattern) (Semester - VII) (410245D) (Elective - IV)

Time : 2½ Hours]　　　　　　　　　　　　　　　　　　*[Max. Marks : 70*

Instructions to the candidates:

　1)　*Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8.*

　2)　*Neat diagrams must be drawn wherever necessary.*

　3)　*Figures to the right side indicate full marks.*

　4)　*Assume suitable data if necessary.*

Q1) a)　Identify how the different Static Test Case Design Techniques are useful for Software Testing?　**[6]**

　　b)　Interpret the different Dynamic Test Design Techniques.　**[6]**

　　c)　What do you think about static techniques.　**[6]**

OR

Q2) a)　Can you illustrate Adhoc Testing with example.　**[6]**

　　b)　How would you explain unit Testing and Integration Testing?　**[6]**

　　c)　State in your own words why Regression Testing in important?　**[6]**

Q3) a)　Illustrate different characteristics of software in detail.　**[6]**

　　b)　Identify different steps involved in Software Development Process.

　　　　[6]

　　c)　Can you clarify different levels of CMM.　**[5]**

OR

Q4) a)　Why Software has Defects? Explain in details.　**[6]**

　　b)　Can you distinguish between Q.A. and Q.C.　**[6]**

　　c)　Explain in detail Pillars of Quality Management System.　**[5]**

Q5) a) How to choose an Automation tool? Explain in briefly. **[6]**

b) Illustrate selenium Tool suite in detail. **[6]**

c) How would you explain Robotic Process Automation (RPA). **[6]**

OR

Q6) a) Construct different automated testing process. **[6]**

b) What is selenium RC? Explain in detail. **[6]**

c) What do you understand selenium grid? Explain it. **[6]**

Q7) a) Can you illustrate Total Quality Management. Explain in detail. **[6]**

b) Illustrate Ishikawals 7 basic Tools in detail. **[6]**

c) What do you understand by software maintenance? Explain in detail. **[5]**

OR

Q8) a) Can you Clarify Flow Chart. Run charts, control charts. **[6]**

b) What are the facts to achieving the software quality. Explain in detail. **[6]**

c) What are the different task goal and metric in SQA? **[5]**

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