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Question Paper Code	12566
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B.E. / B.Tech. - DEGREE EXAMINATIONS, APRIL / MAY 2024

Eighth Semester

Computer Science and Engineering

20CSEL804 - SOFTWARE QUALITY ASSURANCE

Regulations - 2020

Duration: 3 Hours

Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

	Marks	K- Level	CO
1. Define software testing.	2	K1	CO1
2. Find the two contract review stages.	2	K2	CO1
3. What is boundary testing? Give an example.	2	K2	CO2
4. Compare stress and load test.	2	K2	CO2
5. List out the components Project life cycle documents.	2	K2	CO3
6. Why is Checklist? Write the need of checklist.	2	K2	CO3
7. Define Project process control.	2	K1	CO4
8. State cost of software quality metrics.	2	K2	CO4
9. Why are software standards important?	2	K2	CO5
10. Write role of ISO in software quality.	2	K2	CO5

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11. a) Give detail description about (i) Contract review process and its stages. (ii) Contract review objectives.	13	K3	CO1
OR			
b) Show the architecture of SQA and explain its components.	13	K3	CO1
12. a) Explain the any two methods of Black Box technique with an example.	13	K2	CO2
OR			
b) List out types of White Box technique and explain any two with example.	13	K2	CO2
13. a) Describe template and Explain the preparing, implementing and updating templates.	13	K3	CO3
OR			
b) Outline the main contributions of checklists to software quality assurance.	13	K3	CO3

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create

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14. a) Summarize software process and product metrics in detail. 13 K2 CO4
OR
b) Describe the objectives of cost of software quality. 13 K2 CO4
15. a) Explain Capability maturity model for process improvement. 13 K2 CO5
OR
b) Give the detail description about SPICE Project software quality assurance. 13 K2 CO5

PART - C (1× 15 = 15 Marks)

16. a) Outline all the test cases for ATM that it is subjected to domain testing. 15 K4 CO6
OR
b) Write the key action for moving from maturity level 2 to 3 and then 3 to 4. 15 K3 CO6