PAPER ID-310052

Subject Code: KCS076

Roll No:

BTECH
(SEM VII) THEORY EXAMINATION 2024-25
SOFTWARE TESTING

TIME: 3 HRS **M.MARKS: 100**

Note: Attempt all Sections. In case of any missing data; choose suitably.

SECTION A

1. Attempt *all* questions in brief. **2 x 10 = 20**

Q no.	Question	CO	Level
a.	Define the term Software Engineering.	1	K1
b.	Explain SQA.	1	K2
c.	Explain Mutation testing.	2	K2
d.	Describe the term Path testing.	2	K1
e.	What is test case prioritization in regression testing?	3	K1
f.	Explain Risk Analysis.	3	K2
g.	Explain debugging in software development?	4	K2
h.	What is exploratory testing, and why is it useful?	4	K1
i.	Explain the need of security Testing.	5	K2
j.	Define Post Deployment Testing.	5	K1

SECTION B

2. Attempt any *three* of the following: **10 x 3 = 30**

Q no.	Question	CO	Level
a.	Explain the significance of walkthroughs and inspections in the verification process. How do they differ, and when should each be used?	1	K2
b.	Define Cyclomatic Complexity. How it can be calculated?	2	K1
c.	Illustrate regression testing, and why is it critical in the software development lifecycle?	3	K3
d.	What are the main levels of software testing, and what are their objectives?	4	K1
e.	Explain Class testing with the help of an example.	5	K2

SECTION C

3. Attempt any *one* part of the following: **10 x 1 = 10**

Q no.	Question	CO	Level
a.	Define SRS. Also discuss source code reviews and software project audit.	1	K1
b.	Explain the various phases of the Software Development Life Cycle (SDLC). Highlight the role of testing in each phase and explain how testing aligns with SDLC.	1	K2

4. Attempt any *one* part of the following: **10 x 1 = 10**

Q no.	Question	CO	Level
a.	Discuss Decision Table-Based Testing as a systematic functional testing approach. How are decision tables created, and how do they ensure comprehensive test coverage?	2	K2
b.	Define Functional Testing. Also explain Boundary Value Analysis and Equivalence Class Testing.	2	K1

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5. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	What is the code coverage prioritization technique in regression testing? Explain how modified code segments are identified, mapped to test cases, and prioritized for execution.	3	K2
b.	What is Regression Test cases selection? How we can reduce the number of test cases in Regression Testing.	3	K1

6. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	Illustrate Automated test data generation. Discuss how test data is generated using genetic algorithm.	4	K3
b.	List various software Testing Tools. Discuss the functionality of each tool in detail.	4	K1

7. Attempt any *one* part of the following: 10 x 1 = 10

Q no.	Question	CO	Level
a.	What is object-oriented testing, and how does it differ from traditional testing methods?	5	K1
b.	Explain web application testing.why is it important? Outline the primary objectives and challenges of testing web applications.	5	K2

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