



Paper id: 251063

Printed Page: 1 of 2

Subject Code: KDS063

Roll No:

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BTECH
(SEM VI) THEORY EXAMINATION 2024-25
SOFTWARE ENGINEERING

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.	Write out the reasons for the Failure of Water Fall Model.	1	K1
b.	Write why prototypes are constructed in prototype model.	1	K1
c.	Describe a context diagram in DFD.	2	K2
d.	Distinguish between verification and validation.	2	K2
e.	Define the categories of design.	3	K2
f.	Define the use of pseudo code in software design.	3	K2
g.	Distinguish between error and failure. Which of the two is detected by testing? Justify.	4	K2
h.	Explain the structure chart and all its types with suitable example.	4	K2
i.	Define adaptive maintenance.	5	K2
j.	List two reasons for increase in the software costs.	5	K1

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

Q No.	Question	CO	Level
a.	Illustrate the activities carried out during each phase of a spiral model.	1	K3
b.	Compare SEI CMM Model and ISO 9001 Model.	2	K4
c.	Explain software metric? How it is different from software measurement.	3	K4
d.	Differentiate between Top Down and Bottom-Up testing approach. Also Explain Test Stub and Drivers.	4	K2
e.	Give the architecture of CASE environment. Also state the importance of CASE tools in Software life cycle.	5	K2

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

Q No.	Question	CO	Level
a.	Illustrate the term software engineering. Discuss the various characteristics of software with examples.	1	K4
b.	Illustrate the statement "Software engineering is layered technology".	1	K4

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

Q No.	Question	CO	Level
a.	Draw the DFD up to 2nd level for Result Management System.	2	K3
b.	Explain Requirement Elicitation techniques. Also explain FAST.	2	K3



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

Q No.	Question	CO	Level
a.	Explain the type of Coupling and Cohesion measures. Also explain how these concepts are useful in arriving at good design of a system.	3	K4
b.	Draw the control flow graph and calculate the cyclomatic complexity with three methods and independent paths for the given code- IF A = 100 THENIF B > C THEN A = B ELSE A = C ENDIF ENDIF PRINT A	3	K4

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

Q No.	Question	CO	Level
a.	Illustrate the terms: (i) Stress testing (ii) Alpha & Beta testing (iii) Regression testing	4	K4
b.	Explain the concept of Test Coverage. How is it measured, and why is it important in software testing?	4	K4

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

Q No.	Question	CO	Level
a.	Illustrate Software Configuration Management? Explain change control process.	5	K4
b.	Explain Re engineering and Reverse engineering.	5	K4