



PAPER ID-310308

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Subject Code: KAI077

Roll No:

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BTECH
(SEM VII) THEORY EXAMINATION 2023-24
SOFTWARE ENGINEERING

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

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

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

Q no.	Question	Marks
a.	Explain the term Software Engineering.	2
b.	Write the various Component of Software.	2
c.	Define software crisis.	2
d.	Compare ISO 9000 and SEI-CMM	2
e.	Differentiate between Top-Down and Bottom-Up design approach	2
f.	Explain control flow graph.	2
g.	What is the difference between failure and fault?	2
h.	Explain the importance of white box testing	2
i.	List any two reasons for increase in the software costs.	2
j.	Explain Software Configuration Management.	2

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

a.	Explain waterfall model. Also discuss its advantages and disadvantages.	10
b.	Discuss about decision tables and its components. Create a decision table. for the following scenario; a bookstore gets a trade discount of 25% for order more than 6 books; for order from libraries and individuals, 5% allowed on orders of 6-19 copies per book title; 10% on orders for 20-49 copies per book title; 15% on orders for 50 copies or more per book title.	10
c.	Explain Cohesion and Coupling. Also discuss its various types.	10
d.	Discuss the importance of Test Drivers and Test Stubs.	10
e.	What is cost analysis in context of software? Explain COCOMO model with the help of schematic diagram.	10

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

a.	Discuss Spiral Model for Software development life cycle and highlight the Risk analysis in this context.	10
b.	Explain Software development life cycle. Discuss various activities during SDLC.	10

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

a.	Discuss the importance of SRS. Also explain the typical IEEE format of SRS document.	10
b.	Explain the term Requirement Elicitation. Also explain various types of requirement elicitation techniques.	10



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SOFTWARE ENGINEERING

TIME: 3 HRS**M.MARKS: 100****5. Attempt any one part of the following:****10 x 1 = 10**

a.	Differentiate between the features of Top-down and Bottom-up approaches of software design along with its advantages and disadvantages.	10
b.	Explain the Halstead's Software Science.	10

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

a.	Discuss Software Design Strategies.	10
b.	Write a short note on: i) Formal Technical Reviews ii) Walk Through iii) Code Inspection	10

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

a.	Why is Software maintenance required? Explain types of maintenances with examples.	10
b.	Explain Risk management in detail. Also discuss the points that differentiate project risk from technical risk.	10