

P.E sem 6  
(3A)

SE  
Software Engg - IT  
(3 Hours)

QP Code:594701

23/11/20

[ Total Marks :80

- N.B. : (1) Question No. 1 is compulsory.  
(2) Attempt any **three** questions from Q.2 to Q.6.

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|----|-----|---|----|
| 1. | (a) | Explain CMM   | 5  |
|    | (b) | Give difference between Waterfall and Prototype Model   | 5  |
|    | (c) | List Software Engineering Practice core Principles.   | 5  |
|    | (d) | Explain following design concepts: Abstraction, Modularity  | 5  |
| 2. | (a) | What is agility? Explain XP   | 10 |
|    | (b) | What is Design? Explain Design Principles   | 10 |
| 3. | (a) | Draw control flow graph and find cyclomatic complexity for the following PDL<br>if(c1 or c2 and c3) s1;<br>else s2;<br>while(c4) s3; s4;<br>do s5; while(c5);<br>s6   | 10 |
|    | (b) | Explain testing strategies  | 10 |
| 4. | (a) | How important is requirement analysis. Elaborate on different requirement engineering tasks.  | 10 |
|    | (b) | For the given Order processing system scenario draw DFD level 0, 1 and 2. The customer can place order, cancel order, do modification in the placed order before it is delivered. The order is delivered to the customer address by the courier company. Customer can make payment for the placed order using credit card or net banking. If customer is not satisfied by the product he can return the product within 15 days from the delivery date. The refund is deposited back to the customer account within 10 days from the date of product return. | 10 |
| 5. | (a) | Explain Refinement, Refactoring and design classes.   | 10 |
|    | (b) | Explain different architectural styles.   | 10 |
| 6. | (a) | Explain Coupling and Cohesion. What is preferred in the component? Why?   | 5  |
|    | (b) | Identify risk of completing graduation with good marks but without knowledge  | 5  |
|    | (c) | Explain software quality attributes.  | 5  |
|    | (d) | Explain change management process.  | 5  |