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| KONGU ENGINEERING COLLEGE, PERUNDURAI 638 060 |
| CONTINUOUS ASSESSMENT TEST - II |
| (Regulations 2018) |

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| Month and Year : October 2021 | Roll No. |
| Programme : B.Tech.  Branch : IT  Semester : V | Date : 21.10.2021  Time : 09.15 A.M. - 10.45 AM |
| Course Code : 18ITT53  Course Name : Software Engineering | Duration : 1 ½ Hours  Max. Marks : 50 |

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| PART ­- A(10×2 = 20 Marks)  ANSWER ALL THE QUESTIONS | | | | | |
|  | In object-oriented relationships, there are two kinds of relationships are there. Define them. | | [CO3,K2] | | |
|  | Draw a class diagram for home security system. | | [CO3,K3] | | |
|  | Differentiate aggregation from composition. | | [CO3,K2] | | |
|  | List and draw the notations for a use case diagram. | | [CO3,K2] | | |
|  | Identify the uses of a sequence diagram | | [CO3,K1] | | |
|  | List the quality attributes used to ensure quality in design concepts | | [CO4,K2] | | |
|  | Identify the qualities that a good software design should exhibit. | | [CO4,K2] | | |
|  | Point out any four design principles | | [CO4,K1] | | |
|  | Architecture is not an operational software. Why? | | [CO4,K2] | | |
|  | Define architectural description as per IEEE standard | | [CO4,K1] | | |
|  | PART – B ( 3 × 10 = 30 Marks)  ANSWER ANY THREE QUESTIONS | |  | | |
|  | Consider an on-line shoe sales system with these general types of features:   * Web-based display of available shoes, their features, and prices * Shoes can be ordered on-line via credit card payment, and the status of the order can be retrieved * Items, features, and prices can be updated * Keeps track of items in stock   The users of the system have the following roles:   * Customer: browses through available items, orders items, and makes inquiries * Webmaster: updates the product presentation on the web. * Shipping assistant: Retrieves orders, ships items, updates order status. * Store manager: retrieves information on which items need to be ordered and updates information when new items arrive; retrieves sales statistics   Draw class diagram and sequence diagram for the above application. | (10) | | [CO3,K3] | |
|  | Draw use case and activity diagram for a restaurant system. The activities of the restaurant system are receive the customer food orders, produce the customer ordered foods, serve the customers with their ordered foods, collect payment from customers, store customer payment details, order raw materials for the food products, pay for raw materials and pay for labor. | (10) | | [CO3,K3] | |
|  | Elaborate separation of concerns in your own words. Is there a case when a divide-and conquer strategy may not be appropriate? How might such a case affect the argument for modularity? | (10) | | [CO4,K2] | |
|  | Define archetype? How do you derive archetypes involved in a system? Consider your own software system and identify the archetypes involved in it. | (10) | | | [CO4,K3] |

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| Bloom’s Taxonomy Level | Remembering  (K1) | Understanding  (K2) | Applying  (K3) | Analysing  (K4) | Evaluating  (K5) | Creating  (K6) |
| Percentage | 10.00 | 36.67 | 53.33 | -- | -- | -- |