|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| V20CST07Course Code: | | | | **V20CST07** | | **V20** | **HTNO** |  |  | |  |  | |  | |  | |  |  | |  |  |
| **SRI VASAVI ENGINEERING COLLEGE(Autonomous)** | | | | | | | | | | | | | | | | | | | | | | |
| **B.Tech IV SemesterRegular Examinations – July– 2022** | | | | | | | | | | | | | | | | | | | | | | |
|  | | |  | |  |  |  | | |  | | |  | | | | | | | | | |
| **SOFTWARE ENGINEERING** | | | | | | | | | | | | | | | | | | | | | | |
| (Common to CSE, CST) | | | | | | | | | | | | | | | | | | | | | | |
| Time: | | | 3:00 Hrs | |  |  | Max. Marks: | | | | | | | | | | 70Marks | | | | | |
|  | | |  | |  |  |  | | | | | | | | | |  | | | | | |
| **Answer All the Questions.**  **Each Questions Carry Equal Marks** | | | | | | | | | | | | | | | | | | | | | | |
|  |  |  |  | | | | | | | | | | | |  | | | | |  | | |
| 1. |  |  |  | | | | | | | | | | | | | | | | | **14 M** | | |
|  | A. | i. | Explain the changing nature of software | | | | | | | | | | | | | | | | | CO1-K2-(7M) | | |
|  |  | ii. | Illustrate prototyping Model with its merits and demerits | | | | | | | | | | | | | | | | | CO1-K3-(7M) | | |
|  |  |  | **OR** | | | | | | | | | | | | | | | | |  | | |
|  | B. | i. | Explain the importance of software Engineering and give objects of software Engineering | | | | | | | | | | | | | | | | | CO1-K2-(7M) | | |
|  |  | ii. | Illustrate unified process in detail with its merits and demerits | | | | | | | | | | | | | | | | | CO1-K3-(7M) | | |
|  |  |  |  | | | | | | | | | | | | | | | | |  | | |
| 2. |  |  |  | | | | | | | | | | | | | | | | | **14 M** | | |
|  | A. | i. | Differentiate verification and validation with an example | | | | | | | | | | | | | | | | | CO2-K2-(7M) | | |
|  |  | ii. | Illustrate functional and non functional requirements | | | | | | | | | | | | | | | | | CO2-K3-(7M) | | |
|  |  |  | **OR** | | | | | | | | | | | | | | | | |  | | |
|  | B. | i. | Describe the process of Interface specification | | | | | | | | | | | | | | | | | CO2-K2-(7M) | | |
|  |  | ii. | Demonstrate the process for identifying system requirements | | | | | | | | | | | | | | | | | CO2-K3-(7M) | | |
|  |  |  |  | | | | | | | | | | | | | | | | |  | | |
| 3. |  |  |  | | | | | | | | | | | | | | | | | **14 M** | | |
|  | A. | i. | Explain the roles of software Architecture | | | | | | | | | | | | | | | | | CO3-K2-(7M) | | |
|  |  | ii. | Demonstrate the effect of cohesion on software engineering | | | | | | | | | | | | | | | | | CO3-K3-(7M) | | |
|  |  |  | **OR** | | | | | | | | | | | | | | | | |  | | |
|  | B. | i. | Describe component and connector view with an example | | | | | | | | | | | | | | | | | CO3-K2-(7M) | | |
|  |  | ii. | Illustrate object oriented analysis and design principals | | | | | | | | | | | | | | | | | CO3-K3-(7M) | | |
|  |  |  |  | | | | | | | | | | | | | | | | |  | | |
| 4. |  |  |  | | | | | | | | | | | | | | | | | **14 M** | | |
|  | A. | i. | Explain Software design process | | | | | | | | | | | | | | | | | CO4-K2-(7M) | | |
|  |  | ii. | Demonstrate reactive and proactive strategies | | | | | | | | | | | | | | | | | CO4-K3-(7M) | | |
|  |  |  | **OR** | | | | | | | | | | | | | | | | |  | | |
|  | B. | i. | Explain different levels of testing | | | | | | | | | | | | | | | | | CO4-K2-(7M) | | |
|  |  | ii. | Illustrate incremental coding process with the help of flowchart | | | | | | | | | | | | | | | | | CO4-K3-(7M) | | |
|  |  |  |  | | | | | | | | | | | | | | | | |  | | |
| 5. |  |  |  | | | | | | | | | | | | | | | | | **14 M** | | |
|  | A. | i. | Describe various decomposition Techniques | | | | | | | | | | | | | | | | | CO5-K1-(6M) | | |
|  |  | ii. | Explain software maintenance models in detail | | | | | | | | | | | | | | | | | CO5-K2-(8M) | | |
|  |  |  | **OR** | | | | | | | | | | | | | | | | |  | | |
|  | B. | i. | Tabulate the comparison between ISO and SCI-CMM Models | | | | | | | | | | | | | | | | | CO5-K1-(6M) | | |
|  |  | ii. | Explain various software Quality factors | | | | | | | | | | | | | | | | | CO5-K2-(8M) | | |
|  |  |  |  | | | | | | | | | | | | | | | | |  | | |
|  |  |  | **\* \* \*** | | | | | | | | | | | | | | | | |  | | |