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VIT

Vellore Institute of Technology

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SCHOOL OF COMPUTER SCIENCE AND ENGINEERING

Continuous Assessment Test – I

CSE3001 - Software Engineering

Programme: B.Tech

Duration: 90 Mins

Slot: A2

Max. Marks: 50

Answer all questions

| S.No. | Question |
|-------|---|
| 1. | <p>Consider a need for android Based Parking Booking System where a smart parking booking system providing an easy way of reserving a parking space online for customers is expected to be developed.</p> <p>a) Define the scope for the application. [2 M]</p> <p>b) You are supposed to identify appropriate process model for the application. It is assuming that process models such as waterfall, RAD, incremental and prototyping model are suitable for the application. As a team leader, you have to propose only one model for the entire processes execution. Which one would you prefer? [2 M]</p> <p>c) State any three reasons for choosing the as a suitable one. [3 M]</p> <p>d) Provide one reason for each of the model that is not found appropriate. [3 M]</p> |
| 2. | <p>Consider an Android Voting System application that provides new technique of casting votes using mobile phones. Android voting system is an application developed for android devices to deploy an easy and flexible way of casting votes anytime and from anywhere. The application is especially developed for organizations to get employees votes for any new policy regulation or issues. The issues or arguments are fed into the system by the admin. Employees can then cast their vote as yes or no. One voter can only post one vote for an argument. Each and every vote casted is stored in the database for the respective argument. At the end of the voting process the system counts the total votes and generates a brief report of it to the admin.</p> <p>a) Identify any SIX ambiguities or omissions in the given requirements of the</p> |

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| | | scenario [6M] |
| | | <p>b. According to you, what Non-functional requirement is highly essential? Why? [2M]</p> <p>c. Mention any ONE consequential requirement that you observe from the scenario. [2 M]</p> |
| 3 | | <p>Consider the development of digital itinerary for GraVITas 2020. To develop it, various requirements with different perspectives to be collected and analysed. In order to perform the analysis for digital itinerary elucidate the following,</p> <p>a. List any four stake holders of the system. [2 M]</p> <p>b. Write any two specific requirements satisfying each of the users' mentioned in question number 3 a. [4 M]</p> <p>c. Define two emergent requirements, which decide the core non-functional requirement of the system. [4 M]</p> |
| 4 | 1 | <p><u>Fill in the blanks</u> [4 M]</p> <p>a. _____ is part of the system engineering process concerned with developing the software infrastructure, control applications and databases in the system.</p> <p>b. The _____ allows for the straightforward definition of milestone progress.</p> <p>c. _____ provides a framework for effective delivery of technology, forms the basis for management and also provides the context for work products, milestones, quality measures, and change management.</p> <p>d. _____ is arranged in a hierarchy and constructed to allow clear and logical groupings.</p> <p><u>True or False</u> [3 M]</p> <p>e. Conflicting requirements are common in Requirement Engineering, with each client proposing his or her version is the right one.</p> <p>f. A software requirement that describes not what the software will do, but how the software will do it?</p> <p>g. A Software is not correct until it not meets all the user requirements.</p> |