VIT
UNIVERSITY
VELLORE & CHENNAI

School of Information Technology and Engineering
Continuous Assessment Test – 1
Course Code: ITE1005
Course Name: Software Engineering – Principles and Practices
B.Tech , IT

Slot :E1

COMMON TO ALL BATCHES

Time: 1 hr 30 min

Max. Marks: 50

Answer All questions
PART (5*10=50 Marks)

1. The goal of software engineering is, of course, to design and develop better software. However, what exactly does "better software" mean? List the essential attributes of good software. Discuss the three main factors that you consider when conducting feasibility study in software project management. (10)

2. Explain the importance of requirement engineering process and its stages in detail. (10)

3. The Citizen Care Systems is the centralized software system which serves to the citizen in the country. It should help the citizens to interact with the government without any interruption. Based on Election Card each and every citizen will have the access to this portal. This is a Web Application. They can avail government facilities like, Senior citizen's concession in Railways, Government Hospital appointments; Medical scheme approved by government, Ration Card details, LPG Booking, and it allows the citizen to send petitions to the collector or to the concern authorities. It provides the reference number to citizen for each and every complaint or any suggestions, which will help to track concerned information. Identify the functional and non – functional requirement for the system. Also draw the use case diagram for the system. (5 + 5)

4. Using the activity duration and precedents given for the "ABACUS" project mentioned below construct the precedence network. Assuming the latest finish date is equal to the earliest finish

date of the Project, calculate the earliest start, earliest finish, latest start and latest finish date, and draw the activity time line and staff allocation diagram for the project. (10)

Activity	Estimated duration (weeks)	Precedents
A Hardware Selection	6	
B System Configuration	4	
C Install Hardware	3	A
D Data Migration	4	B
E Draft office procedures	3	B
F Recruit Staff	10	
G User Training	3	E,F
H Install and Test System	2	C,D

Discuss the stages of Evolutionary Prototyping and Incremental Model. (5+

*****ALL THE BEST *****