R V College of Engineering, Bengaluru-59
(Autonomous Institution affiliated to VTU, Belagavi)
Department of Information Science and Engineering
C I E - I : Question Paper

Course: (Code)	SOFTWARE ENGINEERING (12IS62)	Semester	VI
		UG/PG	UG

Date : 10th Feb 2016	Duration : 2 Hrs	Staff : Dr.GNS/ AK/NG/SMR/PH

Note : i) Answer All questions.
ii) Part A Questions to be answered in first 2 pages of answer booklet.

Max. Marks : 15 + 50

Q. No	PART – A	Marks	Level	CO
1.1	List the reasons for software crisis in the year 1972.	02	L2	CO1
1.2	With examples, give the characteristics of the socio-technical system.	02	L3	CO1
1.3	If system is rectifying the faults, what percentage of the effort is required for software maintenance?	02	L5	CO1
1.4	List the activities performed in re-engineering process.	01	L2	CO1
1.5	List the stages of component based software engineering process.	01	L2	CO1
1.6	The model best suited for larger system development is _____	01	L2	CO1
1.7	List the upper CASE tools used for software design.	02	L3	CO2
1.8	List the different activities under the software design process.	01	L1	CO2
1.9	Give any one functional requirement for restaurant management system.	01	L4	CO2
1.10	List the problems with Natural Language representation of software requirement specification.	02	L2	CO2
	PART – B	**Marks**	**Level**	**CO**
2a.	Identify the sub-system and disciplines involved in ATM system. Draw a neat diagram to mention them.	05	L4	CO1
b	List the key challenges faced in software engineering.	05	L2	CO1
3a.	List and explain different types of software maintenance.	06	L5	CO2
b.	Differentiate between Software Engineering and System Engineering.	04	L3	CO1

4a.	With a diagram give the system model for burglar alarm system. Also provide description for all the sub-system in the system.	07	L2	CO1
b.	What is bespoke product? Give some real time software examples of bespoke product.	03	L2	CO1
5	Suggest a suitable software process model for ATM systems. List the process specific activities and also mention the demerits (if any) of using that software process model.	10	L5	CO1
6	Following is the statement given for the requirement analysis for the restaurant management system. Identify accurately at-least five non-functional and fives functional requirement of this system. "The system is intended to support the day-to-day operations of a restaurant by improving the processes of making reservations and allocating tables to customers. The Restaurant system provides the facilities like • Record Booking • Cancel Booking • Record Arrival • Table Transfer The new system can offer diners eat at the restaurant without making an advance booking, if a free table is available. This is known as Walk-in. The new system should display the same information as the existing booking sheet and in same format, to make it easy for restaurant staff to transfer, to the new system. When new bookings are recorded or changes made to existing bookings, the display should be immediately updated, so that restaurant staff is working with the latest information available."	10	L5	CO2

Course Outcomes (CO)
1. Comprehend various software life cycle models and steps of software development process.
2. Apply concepts of Software Project Planning and software Design techniques.
3. Analyze capabilities of various tools to assist in the software development activities.
4. Develop correct and robust software design and software project plan from requirement gathering to Implementation