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BMS College of Engineering, Bangalore-560019

(Autonomous Institute, Affiliated to VTU, Belgaum)

JUNE 2015 Semester End Make Up Examinations

Course: Software Engineering **Duration: 3 Hours**
Course Code: 10CI6GCSWE **Max Marks:100**
Date: 19.06.2015

Instructions: Answer any five full questions choosing one from each unit.

UNIT-I

1. a) Explain various phases of System Engineering Process 08
   b) What are the steps used to minimize the misunderstanding when writing user requirements. A filling station (gas station) used to minimize by making fully automated operation. Drivers swipe their credit card through a reader connected to the pump; the card is verified by communication with a credit company computer, and fuel limit is established. The driver may then take the fuel required. When fuel delivery is complete and the pump host is returned to its holster, the driver's credit card account is debited with the cost of the fuel taken. The credit card is returned after debiting. If the card is invalid, the pump returns it before fuel is dispensed. Prepare requirements list for the above problem statement 10
   c) Suggest how the system used in a car can help with decommissioning of overall system. 02

OR

2. a) A group diary and time management system is intended to support the timetabling of meetings and appointments across a group of co-workers. When an appointment is to be made that involves a number of people, the system finds a common slot in each of their diaries and arranges the appointment for that time. If no common slots are available, it interacts with the user to rearrange his or her personal diary to make room for the appointment. Prepare scenarios. 06
   b) Differentiate between the open interview and close interview 04
   c) Consider a newspaper to be printed, illustrate the various viewpoints. 08
   d) Explain why specifying the system to be used by emergency services for disaster management is inherently a wicked problem 02

UNIT-II

3. a) Derive a context model for banks ATM? 06
   b) With a neat diagram explain risk management process? 06
   c) Draw an activity network and Gantt chart for the following data? 08

Task	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Duration (Days)	8	15	15	10	10	5	20	25	15	15
Dependencies			T1 (M1)		T2,T4 (M2)	T1,T2 (M3)	T1 (M1)	T4 (M5)	T3, T6 (M4)	T5,T7 (M5)

UNIT-III

4.	a)	Explain with neat diagram the two main strategies used to decompose a subsystem Into modules.	08
	b)	Which is the Object Oriented strategies used throughout the development process. Explain.	06
	c)	Explain in detail the repository model of system organization with a neat diagram	06

UNIT-IV

5.	a)	Design the steps necessary to develop a zero defect software	10
	b)	Explain partition testing by taking search routine as an example.	10

OR

6.	a)	What are the principles shared in common by different agile methods. Explain	06
	b)	List out the advantages of Pair programming.	06
	c)	Explain rapid application development environment with necessary diagrams.	08

UNIT - V

7.	a)	Explain the general structure of a project plan.	07
	b)	Explain the different inspection checks in Verification and Validation process.	07
	c)	What are the attributes of good software.	06

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