

MAY 2016: END SEMESTER ASSESSMENT (ESA) MCA IV SEMESTER

UC14MC551- SOFTWARE ENGINEERING

Time: 3 Hrs

Answer All Questions

Max Marks: 100

1.	a)	Define Legacy software and software Engineering.	2+2
	b)	List all umbrella activities in software process.	4
	c)	Describe the features of waterfall model in software development, with an illustrative diagram.	5+2
	d)	What is Component Based Development (CBD) model? Explain briefly.	5
2.	a)	What is Requirement engineering? List all tasks of requirement engineering.	2+3
	b)	Discuss the "Art of Negotiation" in requirement engineering.	5
	c)	Describe the elements of analysis model.	4
	d)	Define the following terms with respect to design concepts (i) Abstraction (ii) Separation of concern (iii) Functional Independence	2*3
3.	a)	What is Test Driven Development (TDD) process ? Write a flow chart for TDD process.	2+3
	b)	Write all possible Bad Smell in coding and Discuss two bad smell briefly.	3+4
	c)	What is Refactoring? Discuss series of refactoring with an example of student graduation report generation.	2+6
4.	a)	What is software Quality? Discuss all four quality concepts in brief.	2+4
	b)	List all Quality Factors according to ISO 9126 ? Explain in detail.	3+6
	c)	Write a short note on "Software Quality Dilemma".	5
5.	a)	What is Extreme Programming (XP)? Explain XP process activities in detail with diagram.	2+8
	b)	Define Unit testing .Explain the use of Stub and Driver in Unit testing environment.	1+6
	c)	Write a short note on "Regression Testing ".	3