

**[Total No. of Printed Pages:2]      CODE NO:- Z-05**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**T.E(CSE/IT) Examination – MAY-2015**  
**Software Engineering**  
**(Revised)**

**[Time: Three Hours]**

**[Max. Marks: 80]**

**N.B**

“Please check whether you have got the right question paper.”

- i) Q.No.1 from section A and Q.No.6 from section B are compulsory.
- ii) Attempt any two questions from the remaining in each section.
- iii) Assume suitable data, if necessary.

**SECTION A**

- Q.1      Solve any five 10
- a) State any two software myths from customer's perspective.
  - b) List out different types of requirements.
  - c) What is COCOMO?
  - d) Explain in short the concept of information hiding.
  - e) What is process framework?
  - f) Define the term functional independence.
  - g) Which process model should be used if the duration given for the completion of project is Very less?
  - h) Give the guidelines for estimating the cost.
- Q.2      A)      Explain SDLC in detail. 07  
            B)      Compare the waterfall model with evolutionary process model. 08
- Q.3      A)      Explain the process steps in requirement engineering. 07  
            B)      Explain Basic COCOMO model and calculate the effort, development time, average staff size and productivity for the project size of 400KLOC. Consider software development team has very high experience on similar type of project & the project schedule is very tight. 08
- Q.4      A)      What are the golden rules of UI design? 07  
            B)      What is modularity? Explain by giving example. 08
- Q.5      Solve any three short notes. 15
- a) QFD
  - b) DFD
  - c) Spiral model
  - d) CMM
  - e) Size oriented matrix.

**SECTION B**

- Q.6      Solve any five 10
- a) Enlist the different software risks.
  - b) Give the notations used for use case diagram.
  - c) List out the software project management activities.
  - d) Enlist the members of web engineering team.
  - e) Explain the term project scheduling.
  - f) What is the purpose of CRC cards?
  - g) List out different testing strategies for object oriented system.
  - h) What is agile planning?

Q.7	A)	Write a case study on result management system by using UML diagrams such as use case, class and sequence diagram.	08
	B)	Explain the object oriented design process?	07
Q.8	A)	Give the process of requirement gathering in web engineering process.	08
	B)	Explain different webapp engineering layers.	07
Q.9	A)	What is risk management? Explain different risk management techniques.	08
	B)	Explain project scheduling with timing diagram for any given project.	07
Q.10		Solve <u>any three</u> short notes.	15
	a)	Test cases	
	b)	Web application	
	c)	Object Oriented design	
	d)	Change management	
	e)	Class diagram.	