Software Engineering, CSE 3104

Assignment- ONE,   Max. Marks: 06, During 28-08-2017 to 01-09-2017

1. A) Define the term software engineering as per IEEE standards.   Write four difficulties an organization faces, if they tries to develop a large software product without using the principles software engineering? [3M]= [1+2]
   B) Write any two symptoms of the software product crisis. What are the factors that have contributed to the present software crisis? Show at least two important drawbacks of the exploratory programming style. [3M] = [1+1+1]

2. A) What is the main purpose of software engineering process of software product development? Write four basic characteristics that differentiate a simple program from a software product. [3M] = [1+2]
   B) Write at least two basic differences between control flow-oriented and data flow-oriented   design techniques and State at least two advantages of object-oriented design techniques. [3M] = [2+1]

3. A) Discuss two agile models and how agile model is different from RAD? [3M] = [2+1]
   B) What do you understand by the term software life cycle? Why it is necessary to model the software life cycle and document it? [3M]=[1+2]

4. A) Explain the different phases of Iterative waterfall model with a schematic diagram. Give an example of a software development project for which the iterative model is not suitable. Justify your answer. [3M]=[1+2]
   B) What is a prototype? List the necessity of the prototype model and explain its life cycle activities. [3M=[1+2]]

5. A) What are the different types of problems in the requirements, the analyst needs to identify and resolve? Explain with necessary examples. [3M]=[1+2]
   B) What is axiomatic specification? How to develop an axiomatic specifications? Illustrate with an example. [3M]=[1+1+1]