MID SEMESTER EXAMINATION-2019
Software Engineering[IT-3003]

__Full Marks: 20__   __Time: 1.5 Hours__

__Answer any four questions including question No.1 which is compulsory.__
__The figures in the margin indicate full marks.__
__Candidates are required to give their answers in their own words as far as practicable and__
__<u>all parts of a question should be answered at one place only</u>__

Q1. Answer all the following.   [1X5
 a) What do you understand by Software Crisis ?
 b) What criteria are used to develop SRS for a given software project?
 c) Why Spiral model is called meta model ?
 d) What do you understand by feasibility study?.
 e) What is Software Engineering?

Q2. a) What is function point metric? How we estimate the function point metric of a software?. [2.5
      b) Explain different phases of iterative waterfall model and mention its advantage over normal
           waterfall model.   [2.5

Q3. a) Explain functional and non-functional requirements with examples.   [2.5
      b) Explain the RAD model of software development. What are its advantages   [2.5
           and disadvantages?

Q5. a) Explain basic COCOMO model with advantages and disadvantages.   [2.5
       b) The size of an organic software product has been estimated to be 38,000 lines of source
          code. Assume that the average salary of software engineers be Rs. 20,000/- per month.
           Determine the effort required to develop the software product, nominal development time
          and the cost required to develop the product.   [2.5

Q6. a) Distinguish between exploratory style and modern style of software development   [2.5
      b) Explain Prototype model in detail. Enlist its advantages and disadvantages.   [2.5

Q7. Write Short notes on any two of the following   [2.5+2.5
      a) SPMP Document
      b) Gantt Chart and PERT chart
      c) Scrum Methodology
      d) Critical Path Modelling