BICS-005

B.Tech. – VIEP – COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00334   **June, 2017**

BICS-005 : SOFTWARE ENGINEERING

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt any* **five** *questions. All questions carry equal marks.*

1. (a) Compare spiral model and prototype model of software development. Describe their relative merits and demerits.   *8*

   (b) Differentiate between process and product. Which one is more important and why ?   *6*

2. (a) Discuss the limitations of software project models. Which, according to you, is the best model of software development ? Justify your answer.   *8*

   (b) Differentiate between coupling and cohesion. List and explain the types of both.   *6*

3. (a) Explain in detail the following software process models with a neat diagram :   *10*
      (i) Incremental process model
      (ii) Evolutionary process model

   (b) "Software does not wear out." Justify this statement.   *4*

4. (a) What is SRS ? Explain the properties of a good SRS.   6

   (b) What is Waterfall model ? Give the merits and demerits of this model.   8

5. (a) What is Software Prototyping ? What are the various prototyping methods and tools ?   7

   (b) What are the different 'Design Metrics' ? Explain different types of metrics.   7

6. (a) Explain 'scheduling' and its importance in software project.   7

   (b) Illustrate and explain the concept of Modular Design. How does a modular design enhance the life of a software product ?   7

7. Explain any *two* of the following :   2×7=14

   (a) COCOMO Model

   (b) Debugging

   (c) Reverse Engineering

   (d) CASE Tools