AE-825

M.Sc. (Final) New Course
Term End Examination, 2016-17

COMPUTER SCIENCE

Paper - II

Software Engineering

Time : Three Hours]   [*Maximum Marks* : 100
                                   [*Minimum Pass Marks* : 36

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

1. Define Software Engineering. Explain the
   characteristics and applications of Software
   Engineering.

2. What is Software Development Life Cycle ?
   Explain prototyping model in detail.

3. Define Software Project Management.
   Explain cohesion and coupling in detail.

254_BSP_(3)   *(Turn Over)*

(2)

4. Explain the following :

   (*a*) Black-box testing

   (*b*) Unified Modeling Language (UML)

   (*c*) Cocomo model

5. What is Software Requirement Specification ? Explain functional and non-functional requirement in detail.

6. Explain the following :

   (*a*) Debugging

   (*b*) Software quality

   (*c*) Test case design

7. Explain forward and reverse engineering in detail.

8. Explain the issues and techniques of Software maintenance.

9. Explain client-server software development. Also explain software reuse.

254_BSP_(3)   *(Continued)*

(3)

10. Explain the following :

    (*a*) Risk management

    (*b*) CMMI

    (*c*) RAD Model

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