

# **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*

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

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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.

**( 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.

( 3 )

**10.** Explain the following :

- (a) Risk management
  - (b) CMMI
  - (c) RAD Model
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