Paper 6 : SOFTWARE ENGINEERING - 2016

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 40

Note : All questions are compulsory. Attempt any two parts from each question. All questions carry equal marks.

UNIT - 1

1. (a) Explain principles of software engineering and describe all phases of SDLC.
   (b) What are the problems and crises arising during software development ? http://www.prsunotes.com
   (c) Write short notes on the following :
   (i) Prototype model   (ii) Spiral model

UNIT - 2

2. (a) What is Software Metrics ? Explain size-oriented and function-oriented metrics with example.
   (b) Describe phases of project management and process management. http://www.prsunotes.com
   (c) Explain project planning with example.

UNIT - 3

3. (a) What are the roles of SRS in software development ?
   (b) Explain data flow diagram and draw DFD of fees management system.
   (c) Write short notes on the following :
   (i) Data dictionary   (ii) Context diagram

UNIT - 4

4. (a) Differentiate coupling and cohesion. Explain, how it is effect designing of software.
   (b) Write short notes on the following :
   (i) Abstraction   (ii) Partitioning
   (c) What is effective modular designing ? Explain Top Down and Bottom Up strategies with suitable example.

UNIT - 5

5. (a) Differentiate error, fault and failure with example.
   (b) What is Testing ? Describe black box and white box testing.
   (c) Explain software maintenance.