Code: 15A05804

R15

B.Tech IV Year II Semester (R15) Regular Examinations April 2019

BUILDING LARGE SCALE SOFTWARE SYSTEMS

(Common to CSE and IT)

Time: 3 hours Max. Marks: 70

PART – A

(Compulsory Question)

*****

1 Answer the following: (10 X 02 = 20 Marks)

(a) Define content coupling.
(b) Count various cohesion types.
(c) List out designing coupling issues with large C program.
(d) Recall the Linux kernel roll in preparing large C programs.
(e) Extend the usage of 'make'.
(f) Infer tools used for tracking the bugs.
(g) Outline metric suite.
(h) Write steps to build large C++ programs.
(i) What is a design pattern?
(j) State the need for pattern oriented software architecture.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

2 Demonstrate various types of cohesion with suitable examples.

OR

3 Classify and examine usage of coupling mechanisms.

UNIT – II

4 Summarize the module based designing of a large C program.

OR

5 Illustrate how to design a good designing of large C programs.

UNIT – III

6 Explain how to handle "git" in implementing version control of building large programs.

OR

7 Prescribe various tools for building large programs.

UNIT – IV

8 Describe the metrics for measuring the quality of C++. Give an example.

OR

9 Explain in detail about coupling and cohesion of C++ programs.

UNIT – V

10 Propose a design pattern for building an object oriented programming. Explain in detail.

OR

11 Devise refactoring approach in building the programs with design pattern based mechanism.

*****