R15

Code: 15A05804

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)
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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.

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