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FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2013

(U.G.—CCSS)

Core Course

CA 5B 10—SOFTWARE ENGINEERING

(As per 2009 Admission Syllabus)

Time : Three Hours　　　　　　　　　　　　　　　　　　　Maximum : 30 Weightage

I. Answer *all* questions :

1 Outcome of requirement specification is :

    (a) Design document.　　　　　　(b) Software requirement specification.

    (c) Text document. —————　(d) None of these.

2 When *two* modules refer to the same global data area they are related as :

    (a) External coupled.　　　　　　(b) Data coupled.

    (c) Content coupled. —————　(d) Common coupled

3 Process of generating analysis and design documents is called :

    (a) Inverse Engineering.　　　　　(b) Software Engineering.

    (c) Reverse Engineering. —————(d) Re-Engineering.

4 The maintenance initiated by defects in the software is called :

    (a) Adaptive Maintenance.　　　　(b) Perfective Maintenance.

    (c) Preventive Maintenance.　　　　(d) Constructive Maintenance.

5 Cyclomatic complexity is equal to _____

6 A design notation used for representing function oriented design is _____

7 _____ is the process of demonstrating that errors are not present.

8 _____ is the measure of the degree of interdependence between modules.

9 _____ is a representation of a software system that is used as a medium for communicating software design information.

10 In a structure chart, a module is represented by _____

11 _____ are semantic connection between classes in an object oriented system.

12 CASE is _____

　　　　　　　　　　　　　　　　　　　　　　　(12 x　= 3 weightage)

　　　　　　　　　　　　　　　　　　　　　　　　　　Turn over

II. Answer *all* questions. Each question carries 1 weightage.

    13 What are the objectives of testing ?

    14 What you meant by requirements elicitation ?

    15 List the major outputs in a waterfall model.

    16 What are decision tables ?

    17 What are the major benefits of reviews ?

    18 Differentiate between new software development and software re-engineering.

    19 What is feasibility analysis ?

    20 Discuss about resource allocation model.

    21 What is risk ?

                                                    (9 x 1 = 9 weightage)

III. Answer any *five* questions. Each question carries 2 weightage.

    22 Describe the various steps of requirements engineering.

    23 Explain different types of cohesion.

    24 Describe the various strategies of design.

    25 What is the difference between functional testing and structural testing ?

    26 Discuss SQA.

    27 Explain spiral model.

    28 What is reverse engineering ? Discuss the levels of reverse engineering.

                                                    (5 x 2 = 10 weightage

IV. Answer any *two* questions. Each question carries 4 weightage.

    29 Explain COCOMO model in detail.

    30 What are the major phases in software development ? Explain.

    31 Explain about risk management.

                                                    (2 x 4 8 weightage