D 91054 **(Pages : 2)** **Name**

Reg. No.....

FIFTH SEMESTER B.C.A. DEGREE EXAMINATION, NOVEMBER 2015

(U.G.—CCSS)

Core Course

CA 5B 10—SOFTWARE **ENGINEERING**

Time : Three Hours Maximum : 30 Weightage

I. Answer *all* questions.

1 Software is :

(a) Superset of programs. (b) Subset of programs.

(c) Set of programs. (d) None of these.

2 Effort is measured in terms of :

(a) Rupees. (b) Person Months.

(c) Persons. (d) Months.

3 The module in which instructions are related through flow of control has :

(a) Temporal cohesion. (b) Logical cohesion.

(c) Procedural cohesion. (d) Functional cohesion.

4 McCall model is a

(a) Requirement model. (b) Process improvement model.

(c) Quality model. (d) Development model.

5 CMM stands for _____

6 _____ represents a template for creating several objects.

7 Level 0 DFD is also called _____

8 _____ gives the degree of relationship of an **ER** diagram.

9 The number of clauses in ISO 9001 are :

10 Which is the most desirable form of coupling ?

11 Which type of maintenance consumes maximum maintenance effort ?

12 A system that does not interact with external environment is called

(12 x ¼ = 3 weightage)

Turn over

II. Answer *all* short answer type questions.

13 Define the term "software engineering".

14 Differentiate between product and process.

15 What is done in requirements review process?

16 What are the objectives of software design ?

17 What is meant by module cohesion ?

18 What is meant by test stub ?

19 Distinguish between verification and validation.

20 Write the importance of feasibility study ?

21 What is Flow graph ?

(9 x 1 = 9 weightage)

III. Answer any *five* short essay questions.

22 Explain the characteristics of a good SRS document.

23 What is structure chart ? Explain.

24 Distinguish between Bottom up and Top down design strategies.

25 Explain risk management activities.

26 Describe constructive cost model.

27 Explain the steps involved in test case preparation.

28 Explain structural testing. How is it different from functional testing ?

(5 x 2 = 10 weightage)

IV. Answer any *two* essay questions.

29 What is software development process model ? Explain waterfall model. Discuss the advantages and limitations of this model.

30 Explain different tools for requirements analysis.

31 Describe the process of reverse engineering. Explain any *two* tools.

(2 x 4 = 8 weightage)