

10. (a) Outline the characteristics of basic COCOMO MODEL. 7½
- (b) Give detail of various design components which are used to prepare DFD of a system. 7½
11. Explain the following: 5×3=15
- (1) Line of Code
 - (2) Function points
 - (3) Decision Tree
12. With a neat diagram explain the building blocks of CASE tool for software engineering. <https://www.ccsustudy.com> 15
13. Differentiate between the following:
- (1) E-R diagram and DFD 5×3=15
 - (2) Dynamic modeling and Functional modeling
 - (3) Waterfall model and Spiral model

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(20517) **Roll No.**

BCA-VI Sem.

18027

B.C.A. Examination, May 2017
Information System Analysis Design and Implementation

(BCA-602)

(New)

Time : Three Hours] [Maximum Marks : 75

Note: Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Note: Attempt all the **five** questions. Each question carries **3** marks. Very short answer is required not exceeding **75** words.

3×5=15

1. What do you mean by system analysis and system design? 3
2. Explain the importance of software requirements analysis. 3
3. Discriminate between risk analysis and feasibility analysis. 3
4. Define the benefits of object oriented analysis over structured analysis. 3
5. Define software process with suitable example. 3

Section- B

(Short Answer Questions)

Note: Attempt **all** the **two** questions out of the following three questions. Each question carries **7½** marks. Short answer is required not exceeding 200 words.

$7\frac{1}{2} \times 2 = 15$

6. Explain the key attributes of a system analyst for software development. 7½
7. Determine the advantage of using Prototype software development model instead of Waterfall model? 7½
8. Discuss the size and cost estimation methods of a software project. 7½

Section- C

(Detailed Answer Questions)

Note: Attempt **all** the **THREE** questions out of the following **five** questions. Each question carries **15** marks. Answer is required in detail. 15×3=45

9. (a) Differentiate between Cohesion and Coupling. 7½
- (b) With a suitable diagram explain the working of Spiral model. 7½