(20518)

Roll No. ....

BCA - VI Sem.

18027

B. C. A. Examination, May 2018

Information System Analysis Design &

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)

Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words.   3×5=15

1. List the advantages of prototype model of software development.   3

2. Mention the importance of requirement analysis in a software development life cycle.   3

3. State the benefits of E-R diagram.   3

4. Describe the disadvantages of Waterfall model.   3

5. List the different software size estimation techniques.   3

Section-B

(Short Answer Questions)

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

7½×2=15

6. Answer the following :   7½

  (a) Describe the key concept of object oriented programming.

    Or

  (b) Estimate the responsibilities of a software project manager.

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7. Answer the following : 7½

(a) What do you mean by size of software ? Why does a project manager need to estimate the size of a project ?

Or

(b) Determine the advantage of using Spiral software development model instead of waterfall model.

8. Explain the following : 7½

(i) Class

(ii) Object

(iii) Attribute.

Section-C

(Detailed Answer Questions)

Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15×3=45

9. What is the significance of structure analysis in software development life cycle ? 15

10. What do you mean by project scheduling ? Assume that a software development group has been asked to build a real-time controller for a medical diagnostic instrument that is to be introduced to the market in nine months. After careful estimation and risk analysis, the software project manager comes to the conclusion that the software, as requested, will require 14 calendar months to create with available staff. How does the project manager proceed ? 15

11. Discuss the various levels of classical waterfall model. 15

12. How is software design different from software coding ? 15

13. Answer the following : 15

(a) Line of code

(b) Function points

(c) Egoless programming

(d) CASE tools

(e) Decision tree.