BCA-08

December - Examination 2015

BCA Part II Examination

Software Engineering

Paper - BCA-08

Time : 3 Hours]   **[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A   10 x 2 = 20
(Very Short Answer Questions)

Note: Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum upto 30 words. Each question carries 2 marks.

1) (i)   What is objective of Testing?

   (ii) Define the term software requirement specification.

   (iii) Define data flow diagram.

   (iv) What is software measure?

   (v)   What is modularity?

   (vi) Differentiate between software engineering and software re-engineering.

   (vii) What is software project palnning?

(viii) What is Unit testing?

(ix) What do you understand by user interface design?

(x) What are non-functional requirements?

Section - B   4 x 10 = 40

(Short Answer Questions)

Note: Answer any four questions. Each answer should not exceed 200 words. Each question carries 10 marks.

2) What do you mean by CASE? Explain the taxonomy of CASE tools.

3) Explain:

   (i) Equivalence class portioning

   (ii) Boundary value analysis

4) What are weak and strong entities in ER Diagram? Explain with suitable example.

5) Explain the metrics for software Quality also explain how a software metrics program is established.

6) What is project management? Explain various activities of project management.

7) What is context level DFD? Create and explain DFD for university examination system.

8) Differentiate between Integration testing and System testing.

9) How is size of software estimated? Explain COCOMO model of cost estimation.

Section - C   2 x 20 = 40

(Long Answer Questions)

Note: Answer any two questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

10) What is software process model? Explain the advantages and disadvantages of spiral model and prototyping model.

11) What do you mean by software verification? Explain various methods of verification with examples.

12) Explain LOC-based estimation and FP-base estimation with an example.

13) "Effective software project management focuses on 4P's. The order is not arbitrary". Explain with proper reason.

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