

BCA-08

B.C.A. Examination, June-2015

Software Engineering

BCA-08*Time : Three 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

(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 word. Each question carries 2 marks. $2 \times 10 = 20$

1. (i) Define the term Software Engineering.
- (ii) What do you mean by software Crisis?
- (iii) Write down names of various software management activities.
- (iv) What are various categories of software resource?

- (v) Differentiate between functional and non-functional requirements.
- (vi) What is cardinality?
- (vii) What is data dictionary?
- (viii) What is SQA?
- (ix) Write down name of various characteristics of Reverse Engineering.
- (x) What is CASE?

Section-B

(Short Answer Questions)

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

4×10=40

- 2. What is difference between verification and validation?
- 3. What is 'Function Point' in software project matrix? Discuss with suitable example.
- 4. What do you mean by the term "Feasibility Study"? Discuss its various types in brief.
- 5. What are the various elements of analysis model? Discuss each element in brief.
- 6. What is ER Diagram? Explain various symbols used in it with appropriate example.

(2)

BCA-08/ 200 /4

- 7. What is user interface design? Discuss the role of user interface in software design.
- 8. What do you mean by term Software Quality? What are the various parameter of quality cost?
- 9. What is software re-engineering? Discuss its need.

Section-C

(Long Answer Questions)

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

2×20=40

- 10. Explain the various steps of Prototype development Version. Also discuss the advantages and disadvantages of it.
- 11. What do you understand with term 'COCOMO'? Explain various modes of COCOMO estimation model along with appropriate examples.
- 12. What is DFD? Explain various symbols used in DFD with appropriate example. Also discuss leveling of DFD.
- 13. What do you mean by Software Testing? Give complete classification of software testing. Explain various methods of White Box Testing.

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(3)

BCA-08/200/4