BCA Fifth Semester Examination, Dec. - 2019

FOURTH PAPER

Software Engineering

Paper Code:-42504

Time Allowed: Three Hours

Maximum Marks: 70

- (1) No supplementary answer book will be given to any candidate. Hence the candidates should write the answers precisely in the main answer book only.
- (2)All the parts of one question should be answered at one place in the answer book.

(Attempt all six questions.)

Part I (Question No. 1& 2) is compulsory & Part II (Question No. 3, 4, 5 & 6) has internal choice.

Part-I

1. Answer any 10 questions. Each question carries 1 mark. (Words limit up to 20 words each)

10x1 = 10

- a) What is Data Dictionary?
- b) Explain Software Metrics.
- c) List the characteristics of good SRS.
- d) Define Fourth Generation Techniques in Software.
- e) Write the advantages of LOC based cost estimation.
- f) Define Software Prototyping.
- g) What are the goals of Software Designing?
- h) Define Abstraction.
- i) Write the importance of Software Architecture.
- j) Differentiate White Box & Black Box Testing.
- k) Define System Testing.
- 1) What is Test Case? Give one example for test case.
- 2. Answer all the questions. Each question carries 5 marks.

4x5 = 20

(Words limit up to 50 words each)

- a) Explain IEEE structure of SRS.
- b) Write the pros and cons of COCOMO Model.
- c) How do object oriented design and structured design differ?
- d) What is Integration Testing? How is it different from System Testing?

Part-II Unit-I

OR Design a system for an Insurance company. Draw DFD's for the system and also prepare	
Design a system for an Insurance company Draw DFD's for the system and also prepare	
the SRS document for the same. Clearly mention the assumption made if any.	10
Unit-II	
Explain Project Planning. Also describe Size Estimation & Cost Estimation with example. OR	10
Why Project Planning is required for Software? What are various decomposition techniques?	10
Unit-III	
What is an Object Oriented Design? Discuss its advantages in developing a software system. OR	10
What is the use of Software Design? Explain various coupling & cohesion methods used in software design.	10
Unit-IV	
What is Software Testing? Discuss various strategies & testing techniques.	10
OR	
Write short notes on: a) Validation and Verification b) Fault finding techniques	10
	Unit-II Explain Project Planning. Also describe Size Estimation & Cost Estimation with example. OR Why Project Planning is required for Software? What are various decomposition techniques? Unit-III What is an Object Oriented Design? Discuss its advantages in developing a software system. OR What is the use of Software Design? Explain various coupling & cohesion methods used in software design. Unit-IV What is Software Testing? Discuss various strategies & testing techniques. OR Write short notes on: a) Validation and Verification
