

BCA Fifth Semester Examination, Dec. – 2018

FOURTH PAPER
Software Engineering
Paper Code:-5641

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.

10x1= 10

(Words limit up to 20 words each)

- a) What are the reasons for the failure of Water Fall Model ?
- b) Define Software Life Cycle.
- c) What is Encapsulation ?
- d) List three major components of Software Project Plan.
- e) Define the term Modularization.
- f) What are the characteristics of Software Measurements ?
- g) What are Test Cases ?
- h) What is White Box Testing ?
- i) What is the use of Architectural Design ?
- j) What do you know about Verification And Validation ?
- k) What is Data Dictionary ?
- l) What do you mean by Decomposition Techniques ?

2. Answer all the questions. Each question carries 5 marks.

4x5 = 20

(Words limit up to 50 words each)

- a) What is Process Model ? Explain the working of Spiral Model.
- b) What is the importance of Metrics and measurement in Software Engineering ?
- c) Explain about DFD and also various symbols required to draw a DFD.
- d) What are the levels of testing ?

Part-II

Unit-I

3. What is Software Design ? Explain its objectives and principles. **10**

OR

What is the importance of Metrics and Measurements in Software Engineering ? Explain various types of Software Metrics. **10**

Unit-II

4. What do you mean by Software Cost Estimation ? Discuss the COCOMO Model for cost estimation. **10**

OR

Explain different Cost Estimation Techniques and their model. **10**

Unit-III

5. Why Software Design is an important process ? Explain. **10**

OR

Explain about Architectural and Detail Design. **10**

Unit-IV

6. What are the objectives of Testing? Explain some testing strategies. **10**

OR

What are the levels of Testing ? Explain about Integration Testing. **10**
