

**U.G. 5th Semester Examination - 2020****BCA****Course Code : BBCADSHT2 [DSE2]****Course Title : Software Engineering**

Full Marks : 40

Time : 2 Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **ten** questions: 1×10=10
- a) What are the full forms of CASE and KLOC?
  - b) What is sequence diagram?
  - c) Write down the names of different kinds of system testing activities.
  - d) Define Test suit.
  - e) Mention one weakness of boundary value analysis.
  - f) Write down the advantage of V-model.
  - g) In which testing strategy requirements established during requirement analysis are validated against developed software?

*[Turn over]*

- h) Write the utility of Data dictionary.
- i) Mention one function of adaptive maintenance.
- j) What do you understand by the term Granularity?
- k) What is non-functional requirement?
- l) Write the full form of COCOMO.
- m) What is test case?
- n) Write the principle of system documentation?
- o) Mention two attributes for effective software metrics.

2. Answer any **five** : 2×5=10
- a) What are the advantages of layered S/W design?
  - b) Make a comparison chart of flowchart and structure chart.
  - c) How is cohesion different from coupling?
  - d) Discuss regression testing.
  - e) What is  $\alpha$  testing?
  - f) How to calculate the function points?
  - g) Describe the work of Delphi Cost Estimation.
  - h) What is big bang integration testing?

3. Answer any **two**:  $5 \times 2 = 10$

- a) What is context level diagram? Mention different types of coupling.
- b) Write short notes on data dictionary and software documentation.
- c) Briefly discuss the iterative waterfall model.

4. Answer any **one**.  $10 \times 1 = 10$

- a) Discuss Kokomo model. Draw the effort versus product size curve for all three types of software and discuss.  $5+5$
- b)
  - i) Write about Expert judgement technique.
  - ii) Describe the different types of coupling.  $4+6$
- c)
  - i) Write the guidelines for creating a Documentation.
  - ii) What are the advantages of Documentation?  $5+5$

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