

U.G. 5th Semester Examination - 2021**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) Define software engineering.
 - b) What is modularity?
 - c) What is top-down strategy?
 - d) What is CASE?
 - e) Define flow based system analysis.
 - f) Define feasibility study.
 - g) What is software quality assurance?
 - h) Define cohesion.
 - i) What do you mean by phase containment of Error?

- j) Why Evolutionary model is known as Incremental model?
- k) Write the advantages of function Point (FP) over LOC.
- j) Define UML.
- m) What do you mean by Adaptive Maintenance?
- n) Write the utility of PERT chart?
- o) What is business risk? Give an example.

2. Answer any **five** questions: 2×5=10
- a) What is validation and verification of a software?
 - b) Mention the steps to prepare cost benefit analysis report.
 - c) Mention the testing principles of software testing.
 - d) What is the most striking feature of spiral model?
 - e) Define Delphi-Cost Estimation.
 - f) Write the advantages and disadvantages of OOD.
 - g) How Data Dictionary plays an important role in Software Development?
 - h) What is Gray box testing?

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

- a) Discuss different types of coupling.
- b) Discuss about different matrices of Software Product.
- c) i) What is Testing?
ii) Write the differences between Black Box and White Box testing. $2+3$

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

- a) What is COCOMO? in the light of COCOMO discuss various types of software. $2+8$
- b) i) Write uses of Mc-Cabe's cyclomatic complexity metric.
ii) Write the different methods of calculating cyclomatic complexity. $4+6$
- c) i) What is a model in UML?
ii) Describe the different types of diagrams supported in UML. $2+8$
