

**Previous Year (2018)
Question Paper of
Software Engineering
BCA-0605**



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Total No. of Questions : 6]
(1048)

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**B.C.A. (CBCS) RUSA Vith Semester
Examination**

4041

SOFTWARE ENGINEERING

Paper : BCA0605

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt *five* questions in all. Section-A, Q. No. 1 is compulsory. Section-B, answer any *four* questions, selecting *one* question from each Unit.

Section-A

1. Attempt all *ten* the objective type questions (MCQ) :

(i) Spiral Model was developed by :

- (a) Bev Littlewood
- (b) Berry Bohem
- (c) Roger Pressman
- (d) Victor Bisili

C-673

(1)

Turn Over

(ii) Which model is popular for students small projects ?

- (a) Waterfall Model
- (b) Spiral Model
- (c) Quick and Fix Model
- (d) Prototyping Model

(iii) Which is not a software life-cycle model ?

- (a) Spiral Model
- (b) Waterfall Model
- (c) Prototyping Model
- (d) Capability Maturity Model

(iv) Project risk factor is considered in :

- (a) Spiral Model
- (b) Waterfall Model
- (c) Prototyping Model
- (d) Iterative Enhancement Model

(v) SDLC stands for :

- (a) Software design life-cycle
- (b) Software development life-cycle
- (c) System design life-cycle
- (d) System development life-cycle

(vi) SRS stands for :

- (a) Software requirement specification
- (b) Software requirement solution
- (c) System requirement specification
- (d) None of the above

(vii) Waterfall model is not suitable for :

- (a) Small Projects
- (b) Complex Projects
- (c) Accommodating change
- (d) None of the above

(viii) In object oriented design of software, objects have :

- (a) Attributes and names only
- (b) Operations and names only
- (c) Attributes, name and operations
- (d) None of the above

(ix) Function oriented metrics were first proposed by :

- (a) John
- (b) Gaffney
- (c) Albrecht
- (d) Basili

(x) In functional decomposition, the data flow diagram :

- (a) is ignored
- (b) is partitioned according to the closeness of the datagram and storage items
- (c) is partitioned according to the logical closeness of the actigram
- (d) Both (a) and (c)
- (e) None of the above

1×10=10

2. Attempt the following questions in (25–50) words.
Each question consists of 4 marks.

- (a) What is a process framework ? Name the framework activities applicable to all software projects.
- (b) Mention *three* software myths.
- (c) What is software architecture ? What is its importance ?
- (d) Briefly describe the quality function deployment technique.
- (e) Explain the process of formal technical reviews.

5×4=20

Section–B

(Unit–I)

10

3. (a) Define software engineering. Explain costs of software engineering for each of the process activities.
- (b) Explain different phases of system engineering.

Or

- (a) Compare waterfall model and spiral model with its advantages and disadvantages.

C–673

(5)

Turn Over

- (b) Explain unified process and discuss unified process work products.

(Unit-II)

10

4. (a) Discuss requirement analysis phase in detail. What is the output of this phase ?
- (b) What characteristics of software make it different from other Engineering products ?

Or

- (a) What do you mean by Feasibility Study ? Explain different types of feasibility studies.
- (b) What is the difference between analysis and design ? Can one begin to design without analysis ?

(Unit-III)

10

5. (a) What is UML ? Discuss the use case diagrams with a suitable example.
- (b) Discuss the difference between Object Oriented and Function Oriented design.

C-673

(6)

Or

- (a) Discuss a testing strategy for Object-Oriented architectures.
- (b) Define structured programming. Discuss the advantages of structured programming.

(Unit-IV)

10

6. (a) Distinguish between software verification and software validation.
- (b) Differentiate between refinement and refactoring.

Or

Write notes on the following :

- (a) Consistency checkers
- (b) Programming principles and guidelines



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Thank You

