BCA/20/25

BACHELOR OF COMPUTER APPLICATION Third Semester SOFTWARE ENGINEERING (BCA - 12)

Duration: 3Hrs.

Part-A (Objective) =20 Part-B (Descriptive) =50 Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

Answer any *five* of the following questions:

1. What is software? Explain the characteristics and applications of software.

(2+8=10)

- What is Software Process Model? What are the activities of process framework? Explain the Spiral model. (2+3+5=10)
- 3. What are the three major categories of software engineering resources, explain with a neat diagram? What are the objectives of Requirement analyses? (5+5=10)
- What is software design process? Explain different frameworks for fundamental software design concept. Explain user interface design process. (2+5+3=10)

5. What is software quality? Explain different elements of software quality assurance. (3+7=10)

6. Explain how Software testing strategy may also be viewed in the context of the Spiral with a neat diagram. (10)

7. What is software reuse? What is Case and Case tools? Explain components and
types of Case tools. (2+2+6=10)

2015/12

8. Explain the following terms:

(2.5×4=10)

- a) Direct measures and indirect measures of software.
- b) Data Objects, Data Attributes and Relationships.

- c) White and Black Box Testing.
- d) Reliability and Testability of software.

REV-00 BCA/20/25

BACHELOR OF COMPUTER APPLICATION Third Semester SOFTWARE ENGINEERING (BCA - 12)

Duration: 20 minutes

(PART A - Objective Type)

I. Choose the correct answer:

- 1. What is the goal of the requirement analysis and specification phase of software development life cycle?
 - [A] Understanding the customer requirement and organize them in an informal document.
 - [B] Analysing the cost of development.
 - [C] Determining scope of the software.
 - [D] None of the above.
- 2. What is the final outcome of the requirement analysis and specification phase?
 [A] Drawing the DFD
 [B] The SRS document
 [C] Design and Coding
 [D] The user manual
- 3. An ER diagram depicts[A] Entities[C] Relationships
- [B] Keys[D] All of the above
- 4. The database design activity deals with the design of the [A] Logical Database
 [C] Both [A] & [B]
 [D] Only [B]
- Testing can be applied to
 [A] Requirements
 [C] Design

[B] Analysis [D] Code

- 6. Which one of the following testing is performed by user?[A] Acceptance Testing[C] Compatibility Testing[D] None of these
- The CASE tools are used for [A] System requirement analysis [C] I/O design

[B] System designing[D] None of the above

The CASE repository
 [A]Works as storage
 [C] Both [A] & [B]

[B] Provide valuable information to project manager [D] Only [B]

2015/12

1×20=20

Marks - 20

9	. Central repository of CASE tools [A] True [B] False	s also serves as data dictionary.
1	0.If a direct approach to software p [A] LOC (Line of code) [C] LOC & FP	The project sizing is taken, size can be measured in terms of [B] FP (Function Point) [D] None of the mentioned
1	1.If an indirect approach is taken, t [A] LOC (Line of code) [C] Fuzzy Logic	hen the sizing approach is represented as [B] FP (Function Point) [D] LOC & FP
1	2.The defines qu the product. [A] User view [C] Value-based view	ality of software in terms of the original specification of [B] Product view [D] Manufacturer's view
3.MTTF stands for[A] Minimum time to failure[C] Maximum time to failure[D] All of the above		
14. The foundation for software engineering is the layer. [A] Tools [B] Methods [C] Process [D] Quality Focus		
15. Which of the following is not a product matrix?[A] Size[B] Reliability[C] Functionality[D] Productivity		
1	6.SDLC stands for [A] Software design life cycle [C] System design life cycle	[B] Software development life cycle[D] System development life cycle
Ċ	[C] System design life cycle[D] System development life cycle7. Which of the following is not the characteristic of software?[A] Software does not wear out[B] Software is flexible[C] Software is not manufactured[D] Software is always correct	
1	18.Management of software development is depending upon? [A] People [B] Product [C] Process [D] All of the Above	
1	19.During software development which factor is most crucial?[A] People[B] Product[C] Process[D] Project	
20.Project risk factor is considered in?[A] Waterfall model[B] Spiral model[C] Prototyping model[D] Iterative enhancement model		Spiral model
