

BCA
Third Semester
SOFTWARE ENGINEERING
(BCA- 302)

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 four from Question no. 2 to 8 Question no. 1 is compulsory.

1. What is a prototype? Under what circumstances it is beneficial to construct a prototype? Does the construction of prototype always increase the overall cost of software development? 3+4+3=10 2. Define the decision table. What is the difference between decision table & decision tree. 5+5=10 3. Discuss the objective of modular software design. What do you mean by the terms cohesion & coupling in context of software design. 5+5=10 4. For what purpose CASE tools are used? State the benefits & architecture of using CASE tools. 5. What do you understand by white box testing & black box testing? Differentiate between them. 7+3=106. The basis path testing comes under which type of testing? Explain the types of calculating cyclomatic complexity with the help of an example. 2+8=10 7. What is SDLC? Discuss the generic waterfall model. 3+7=10

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8. Discuss the various key process areas of CMM at various maturity levels.

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## BCA Third Semester SOFTWARE ENGINEERING (BCA- 302)

Duration: 20 minutes	Marks – 20
(PART A - Objective Type)	
I. Choose the correct answer:	1×5=5
1. Glass box testing is and behavioral testing is	
a. Black box, white box	
b. White box, black box	
c. White box, Alpha box	
d. Alpha testing, beta testing	
2. "Place the in control"- is an important guideline f	or Interface Design.
a. Interface c. user	
b. Memory load d. All of these	
3. Software is a rather than	
a. Physical, logical b. Logical, physical	
c. both d. none	
4 is concerned with the practicalities	of developing and
delivering useful software.	
a. System b. System Software	
c. Software Engineering d. Software	
5. Software delivers the most important product of today, which	ı is
a. Data b. System c. Information	

<ul><li>6. RAD is the abbreviation of</li></ul>	
	understood scientific methods to the
construction, operation, modification and a	maintenance of useful devices and
systems.	
8.	model has
the advantage that it can result in better testing	ng because testing each increment is
likely to be easier than testing the entire syste	em.
9. Incremental model combines	
and	model.
10 To animal and data 4 and a f	is
to obtain customer feedback.	
11.In	system
components and their interactions are document	ted.
12	model has the
advantage that it can result in better testing beca	ause testing each increment is likely
to be easier than testing the entire system.	
13.Relationship between entities are-	
&	
14.A spiral model has	number of phases of
development.	
15.Testing cannot show absence of	and

1×12=12

II. Fill In The Blanks:

16. Are we building the right product? 1s
and "Are we building the product right?" is
17.Software maintenance has the types of
and
III. Define True /False: 1×3=3
18. "Software doesn't wear out"- is a characteristics of software.
Ans:
19."It is not appropriate when technical risk is high"-is a disadvantage of spiral
model.
Ans:
20."It should be used to model the way in which data is processed in the existing
system at analysis level"- is a property of DFD.
Ans:

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