Fourth Semester BCA Degree Examinations

May /June 2025

(SEP Scheme)

SBD0230 : Software Engineering

Time: 3 hrs.] *[Max.Marks:80*

Instruction to the Candidates :

1. *The student should legibly write Section number along with question numbers within the margin only.*
2. *The answers without Section number and question numbers will not be valued.*
3. *Do not write anything (except register number) on the question paper.*

SECTION – A

I. Answer all the following questions. **(2X10=20)**

1.

a) Define software and software engineering.

b) What do you mean by software process ? List any 2 software process.

c) What are quality attributes in software design?

d) What is a client-server architecture? Explain.

e) Name two types of interaction diagram.

f) Define Flow Chart and pseudo code.

g) What are the golden rules of interface design.

h) List any two differences between verification and validation.

i) Define a Test Case.

j) What is Top-down Integration testing? Explain with example.

SECTION – B

II. Answer any SIX questions of the following. **(5X6=30)**

2. Explain software engineering ethics.

3. With neat diagram explain incremental process model with its advantages.

4. Explain software design process.

5. Describe about Layered architecture with neat diagram.

6. Explain class diagram with example.

Contd...2

7. Describe the user interface design process.
8. Explain the principles of Software Testing.
9. Explain white-box testing with examples.



SECTION – C

III. Answer any THREE of the following questions. **(10X3=30)**

10. Describe waterfall model with diagram. List its advantages and disadvantages.
11. Explain coupling and cohesion in software design.
12. Explain prototyping and evaluation techniques in user interface design.
13. What is meant by software testing? Briefly explain validation testing and discuss Alpha Testing. Beta Testing and user acceptance Testing.

** * * * **