



**B.C.A. V Semester Degree Examination, April/May - 2024**

**COMPUTER SCIENCE**

**DSC-15 : Software Engineering**

**(NEP)**

Time : 2 Hours

Maximum Marks : 60

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**SECTION - A**

Answer **all** the questions, each question carries **one** mark.

**10x1=10**

1. (a) What is Software Engineering ?
- (b) What is the difference between waterfall model and spiral model ?
- (c) Define requirement validation.
- (d) What is Agile methodology ?
- (e) Expand SRS.
- (f) What is class diagram ?
- (g) What do you mean by deployment ?
- (h) What is meant by stakeholders ?
- (i) What is unit testing ?
- (j) What is a test case ?

**SECTION - B**

Answer **any four** questions, each question carries **five** marks.

**4x5=20**

2. What are the essential attributes of a good software ?
3. Explain the principles of agile methods.
4. What are the ethics to be followed in Software Engineering ?
5. What are the different ways of writing system requirement specifications ?
6. Explain sequence diagram with suitable example.
7. Write a note on Extreme programming.



**SECTION - C**

Answer **any three** questions, each question carries **ten** marks.

**3x10=30**

8. Describe the different phase of the waterfall model with advantages and disadvantages.
9. Explain Interaction model.
10. Explain requirement elicitation and analysis process.
11. Explain MVC pattern.
12. Write a note on user testing and its types.

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