

**B.Tech (Fourth Semester Computer Science & Engineering (C.B.C.S))**  
**End Semester Examination Summer – 2023**  
**Course Name: Software Engineering**

Course Code: **BCS2402**  
Time: 3 Hours]



ADS/EFV5735K /3088  
[Max.Marks: 60

**Instructions to Candidates:**

1. All questions carry marks as indicated.
2. All the sub- questions (a, b, c, d, and e) of Que.1 in Section A are compulsory.
3. Solve any two sub-questions in Que. 2 to Que.6 in Section B.
4. Assume suitable data wherever necessary.
5. Use of non-programmable calculator is permitted.

**Section – A**

**Que.1**

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|---|---------|
| a) Define Software Engineering according to IEEE standards.             | 2 (CO1) |
| b) Explain software process. State the important features of a process. | 2 (CO2) |
| c) Illustrate short note on Information hiding.                         | 2 (CO3) |
| d) Discuss the Verification & Validation.                               | 2 (CO4) |
| e) Comment on Risk Management.  | 2 (CO5) |

**Section – B**

**Que.2**

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|--|---------|
| a) Classify the software process layers. Explain briefly.    | 5 (CO1) |
| b) Define software. Discuss the characteristics of software. | 5 (CO1) |
| c) Describe software myths in detail.                        | 5 (CO1) |

**Que.3**

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|---|---------|
| a) Analyze in detail about Behavioral Models with neat sketch.                  | 5 (CO2) |
| b) Discriminate Agile process model in detail.                                  | 5 (CO2) |
| c) Classify waterfall model and Incremental model with its merits and demerits. | 5 (CO2) |

**Que.4**

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| a) Construct about pattern-based software design.              | 5 (CO3) |
| b) Define Architecture. Discover architecture is so important. | 5 (CO3) |
| c) Demonstrate in detail about interface design steps.         | 5 (CO3) |

**Que.5**

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| a) Discuss in detail about Software Measurement.                 | 5 (CO4) |
| b) Differentiate between Black Box testing and White Box Testing | 5 (CO4) |
| c) Describe Software Quality in detail.                          | 5 (CO4) |

**Que.6**

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|--|---------|
| a) Analyze RMMM and its plan in detail.              | 5 (CO5) |
| b) Explain in detail about Formal Technical Reviews. | 5 (CO5) |
| c) Classify Software Reliability in detail.          | 5 (CO5) |

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