

|   |                                         |   |
|---|-----------------------------------------|---|
| 5 | What is meant by open source licensing? | 3 |
| 6 | Explain formal technical review         | 3 |

### **Module - 3**

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|----|----------------------------------------------------------------------------------------------|---|
| 15 | a) Explain the different tests involved in system testing?                                   | 7 |
|    | b) Discuss how the black box testing focuses on the functional requirements of the software. | 7 |
| 16 | a) Why is test documentation necessary? What are the types of testing documents?             | 7 |
|    | b) Compare software re-engineering and refactoring for software maintenance.                 | 7 |

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|---|-----------------------------------------------------|---|
| 5 | Explain Post-mortem evaluation in software process. | 3 |
| 6 | Compare white box testing with black box testing.   | 3 |

## **Module -3**

- 15 a) Explain the following open-source licence management. 7  
(i) GPL      (ii) LGPL      (iii) BSD
- b) Explain code management process and DevOps automation. 7
- 16 a) Describe validation testing and integration testing methods of software. 7
- b) Explain software evolution processes and software management. 7

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|---|--------------------------------------------------|---|
| 5 | Differentiate between GPL and LGPL.              | 3 |
| 6 | Compare White Box testing and Black box testing. | 3 |

### **Module -3**

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|----|-----------------------------------------------------------------------------------------------------|---|
| 15 | a) What are design patterns? What are the essential elements of design patterns?                    | 7 |
|    | b) Differentiate between Formal and Informal review techniques.                                     | 7 |
| 16 | a) Differentiate between Top-down and Bottom-up Integration testing methods with suitable diagrams. | 7 |
|    | b) Explain System testing and its variants.                                                         | 7 |

- 5 Define any four types of system testing. (3)
- 6 Identify the types of maintenance that a software product might need. Explain. (3)

### **Module -3**

- 15 a) Compare any two types of Black box testing strategies citing examples. (7)
- b) Explain basis path White box testing strategy with an example. (7)
- 16 a) Discuss the Formal Technical Review (FTR) process performed by Software Engineers. (6)
- b) Describe Continuous Integration, Delivery and Deployment (CI/CD/CD) in DevOps Automation. (8)