

## B.Sc. Sem-6 Examination

CC 307

## Computer Science

April 2022

Time : 2-00 Hours]

[Max. Marks : 50

**Instructions:** All Question in Section-I Carry equal marks.

Attempt any Three Questions in Section-I.

Question I in Section-II is COMPULSORY.

## SECTION-I

- |        |   |   |   |
|--------|---|---|---|
| Q.I    | A | Explain coding style, code reading and statics analysis in detail.  | 7 |
|        | B | Explain Object oriented Programming practices in detail.  | 7 |
| Q.II   | A | Explain unit testing and Structured programming in detail.  | 7 |
|        | B | What are the event-driven programmings? Advantages and Disadvantages of Event-Driven Programming.                 | 7 |
| Q.III  | A | Explain testing objects, testing principals & guidance in detail.   | 7 |
|        | B | Explain the following terms: Test case, Error, Fault, Failure, Defect, Verification and Validation.               | 7 |
| Q.IV   | A | What are various principles of software testing? Explain the difference -between white box and black box testing. | 7 |
|        | B | What is the basic difference between data flow and control flow testing?  | 7 |
| Q.V    | A | What is project management? Explain various activities of project management.                                     | 7 |
|        | B | How many types of roles are there in software projects explain all the roles in detail.                           | 7 |
| Q.VI   | A | What is cost estimation? Explain various cost estimation techniques. Discuss how COCOMO helps in cost estimation. | 7 |
|        | B | Explain team structure in detail.   | 7 |
| Q.VII  | A | What is Risk? Explain Risk management strategies in detail.   | 7 |
|        | B | Explain Risk management overview and how to control risks.  | 7 |
| Q.VIII | A | Explain Risk identification and assessment in detail  | 7 |
|        | B | Explain mitigation, monitoring and control in detail.   | 7 |

## SECTION - II

- |      |  |   |
|------|--|---|
| Q-IX | 1) Which of the following testing is also known as white-box testing?  | 8 |
|      | <ul style="list-style-type: none"> <li>a) Structural testing</li> <li>b) Error guessing technique</li> <li>c) Design based testing</li> <li>d) None of the above</li> </ul>    |   |
|      | 2) Which of the following testing is related to the boundary value analysis?   |   |
|      | <ul style="list-style-type: none"> <li>a) White box and black box testing</li> <li>b) White-box testing</li> <li>c) Black box testing</li> <li>d) None of the above</li> </ul> |   |

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April- 2022

B.Sc. Computer Science Semester – VI  
PAPER – COM-307 (Software Engineering - II)

- 3) What are the different levels of Testing?
- a) Integration testing
  - b) Unit testing
  - c) System testing
  - d) All of the above
- 4) Risk management is one of the most important jobs for a
- a) Client
  - b) Investor
  - c) Production team
  - d) Project manager
- 5) Which of the following risk is the failure of a purchased component to perform as expected?
- a) Product risk
  - b) Project risk
  - c) Business risk
  - d) Programming risk
- 6) The purpose of \_\_\_\_\_ is to linearize control flow through a computer program so that the execution sequence follows the sequence in which the code is written.
- a) Object oriented programming
  - b) Event driven programming
  - c) Event oriented programming
  - d) Structured programming
- 7) EMMA is type of
- a) Verification tool
  - b) Error finding tool
  - c) Coding verification tool
  - d) Unit testing tool
- 8) Full form of COCOMO model is \_\_\_\_\_
- a) Common Code Model
  - b) Cost of Code Model
  - c) Constructive Object Code Oriented Model
  - d) Constructive Cost Model
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