| PRN: | | Course Code : | MCA209 |
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Second Year **MCA** End Semester Examination Summer 2024

# Software Testing And Quality Assurance

Day and Date: 31 MAY 2024, Friday  Max Marks: **100**

Time : 02:00PM To 05:00PM  Duration: **03** hrs

**Instructions: All questions are compulsory.**

| | | | Marks | Bloom's Level | CO |
|---|---|---|---|---|---|
| Q.1 | | **Attempt the following** | | | |
| | a) | Describe Software Development Life Cycle. | 08 | L2 | CO1 |
| | b) | List the Software Quality Factors. | 08 | L1 | CO1 |
| | | OR | | | |
| | b) | Define Nature of errors and example for Testing | 08 | L1 | CO2 |
| Q.2 | | **Attempt the following** | | | |
| | a) | Explain.white Box Testing and its types. | 08 | L3 | CO1 |
| | b) | List the Testing Fundamentals and Test Case Design problems in SDLC. | 08 | L2 | CO2 |
| | | OR | | | |
| | b) | Discover Software Testing Strategies. | 08 | L1 | CO2 |
| Q.3 | | **Attempt any two from the following** | | | |
| | a) | Explain Different types of Metrics. | 08 | L3 | CO2 |
| | b) | Summarize Concept and Developing Metrics. | 08 | L2 | CO2 |
| | c) | Describe the complexity metrics. | 08 | L2 | CO3 |
| Q.4 | | **Attempt any two from the following** | | | |
| | a) | Write Definition of Defects, Defect Management Process. | 08 | L3 | CO3 |
| | b) | Explain the Cause-effect Diagrams. | 08 | L2 | CO4 |
| | c) | List the Scatter Diagrams, Run charts. | 08 | L1 | CO4 |
| Q.5 | | **Attempt any Two of the following** | | | |
| | a) | Summarize the ISO 9001 Quality Standard, Six sigma. | 09 | L2 | CO3 |
| | b) | Explain Software Reliability, SQA Plan. | 09 | L2 | CO4 |
| | c) | Prepare Formal approaches to SQA Statistical Quality Assurance. | 09 | L3 | CO3 |
| Q.6 | | **Attempt any Two of the following** | | | |
| | a) | Examine web testing? functional testing. | 09 | L4 | CO4 |
| | b) | Explain UI testing & Usability testing. | 09 | L2 | CO3 |
| | c) | Describe Approaches to test data generation. | 09 | L2 | CO4 |

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