# MASTER OF COMPUTER

# APPLICATIONS (MCA–NEW)

## Term-End Examination

## June, 2025

### MCS-213 : SOFTWARE ENGINEERING

*Time : 3 Hours*          *Maximum Marks : 100*

*Weightage : 70%*

*Note :* *Question No.* ***1*** *is compulsory. Attempt any* ***three*** *questions from the rest .*

1. (a) Discuss the phases of Software Development Life Cycle with the help of an example project.          10

(b) Explain the component based software engineering process with an example. 10

(c) Define Software Quality. Explain any *four* software quality factors.          10

(d) Explain various sections of SRS with an example.                          10

2. (a) Define the term 'Risk'. Explain various phases of Risk Management.          10

(b) Explain the differences between Black Box Testing and White Box Testing techniques with an example.          10

3. (a) Write a short note on Cyclomatic Complexity.                          10

(b) What is coupling ? Explain various types of coupling.                    10

4. (a) Draw first 3-levels of DFD, for a 'Railway Reservation System'. Make necessary assumptions. 10

(b) Explain the COCOMO model of cost estimation. 10

5. (a) How are J2ME applications tested ? What are important features of J2ME ?

10

(b) What is Reverse Engineering ? How does it differ from Re-engineering ? 10

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