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MCS-213

**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 .*

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

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- (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

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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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