

**MASTER OF COMPUTER APPLICATIONS  
(MCA-NEW)**

**Term-End Examination**

**December, 2022**

**MCS-213 : SOFTWARE ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 100*

*(Weightage : 70%)*

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

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1. (a) What are the different methods used for estimating cost and efforts required for completing a project successfully ? Explain any one of the methods. 10
- (b) Explain McCall's Quality factors. 10
- (c) Explain various steps involved in Debugging. 10
- (d) Briefly explain the process of Software Configuration Management. 10

2. (a) Write a short note on “Human Computer Interface (HCI)”. 10
- (b) Develop SRS for a “Hospital Management System.” Make necessary assumptions. 10
3. (a) What is Alpha Testing ? How does it differ from Beta Testing ? 10
- (b) Define the term “Risk”. Explain different phases of Risk Management. 10
4. (a) Explain any two methods for scheduling of Software Projects. 10
- (b) What is meant by “Boundary Value Analysis” ? Explain with the help of an example. 10
5. (a) Draw the first 3 levels of DFDs for a “Student Information System”. Make necessary assumptions. 10
- (b) Write a short note on Software Re-engineering. 10
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