MCS-213

MASTER OF COMPUTER APPLICATIONS (MCA-NEW)

Term-End Examination

June, 2022

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) Define Cleanroom Software Engineering. What is its significance ? Discuss the underlying principles of Cleanroom-based Software Development. *10*

   (b) List and explain various phases of Spiral Model. *10*

   (c) Write a short note on Cyclomatic Complexity. *10*

   (d) Explain various levels of SEI-CMM. *10*

2. (a) What is Unit Testing ? How does it differ from Integration Testing ? *10*

(b) Develop SRS for a "Railway Reservation System". Make necessary assumptions. *10*

3. (a) What is meant by "Change Management" ? Explain the process of Change Management. *10*

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

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

(b) What is meant by "Verification" ? How does it differ from "Validation" ? Give an example for each. *10*

5. (a) What is meant by "Version Control" ? Explain with an example. *10*

(b) Write a short note on "Baselines". *10*

————