# MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
### MCA I Year II Semester (R22) Supplementary End Semester Examinations, April - 2024
## SOFTWARE ENGINEERING

**Time: 3Hrs**                                                                 **Max Marks: 60**

Attempt all the questions. All parts of the question must be answered in one place only.
**In Q.no 1 to 5 answer either A or B only. Q.no 6 which is a case study is compulsory.**

| Q.No | Question | Marks | CO | BL |
|------|----------|-------|----|----|
| Q.1(A) | Illustrate the Waterfall Model and Incremental Model | 12M | 1 | 2 |
| | **OR** | | | |
| Q.1(B) | Demonstrate CMM and all the levels of CMM. | 12M | 1 | 2 |
| Q.2(A) | Distinguish functional and non-functional requirements in software engineering with an example. | 12M | 2 | 4 |
| | **OR** | | | |
| Q.2(B) | Analyze the Requirement Engineering process with neat diagram. | 12M | 2 | 4 |
| Q.3(A) | Explain UML Class diagram and Use case diagram with example. | 12M | 3 | 2 |
| | **OR** | | | |
| Q.3(B) | Summarize types of coupling and cohesion. | 12M | 3 | 2 |
| Q.4(A) | Define metrics. Identify all the process and product metrics. | 12M | 4 | 3 |
| | **OR** | | | |
| Q.4(B) | Utilize the methods used in debugging with an example. | 12M | 4 | 3 |
| Q.5(A) | Explain the process of ISO 9001 certification in software engineering. | 12M | 5 | 2 |
| | **OR** | | | |
| Q.5(B) | Write short notes on software reliability and software reuse. | 12M | 5 | 2 |

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