

**B. Tech. Third Semester (Artificial Intelligence and Data Science)/
(21_22_SOE_ADS_203.1) Examination**

Course Code : AIDS 2205

Course Name : Software Engineering

Time : 3 Hours]

[Max. Marks : 50

Instructions to Candidates :—

- (1) Do not write anything on question paper except your exam seat number.
- (2) Write the accurate question number in left margin of answer book along with answers.
- (3) All questions are compulsory.
- (4) All questions carry marks as indicated.
- (5) Due credit will be given to neatness and adequate dimensions.
- (6) Assume suitable data wherever necessary and mention at the beginning of answer.
- (7) Illustrate your answers wherever necessary with the help of neat sketches.

1. (A) ✓ A business application is to be developed within 60 to 90 days of time span. Which model of software development will be used ? Describe the same with neat sketch along its advantages and drawbacks. 5(CO1)
(B) What is requirement of the application development for the agile model to be used ? Justify your answer with example. 4(CO1)
2. (A) Justify the translation of analysis model into design model. 5(CO1)
(B) ✓ Design the sequence diagram for Patient Health Monitoring System. 3(CO2)
3. (A) Illustrate with example different ways for computing the cyclomatic complexity of the program. 4(CO2)

- (B) ✓ Describe different testing strategies with respect to their relation with different phases of software development life cycle model. 4(CO2)
4. (A) ✓ Describe the SCM process in detail with example. 5(CO3)
(B) Justify the importance of change control in application software development. 4(CO3)
5. (A) List different risk components. Also explain the impact of risk on these components with the help of risk table. 4(CO4)
(B) ✓ Consider the situation of a senior staff in the industry wants to leave the job. Justify your RMMM plan for handling the above situation. 4(CO4)
6. (A) ✓ Explain with neat sketch the Business process Reengineering model of software development. 4(CO5)
(B) Illustrate with example the use of CASE tools in the software development. 4(CO5)

