TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF SCIENCE (M.Sc) in COMPUTER APPLICATIONS
EXAMINATION : MAY - 2024
SEMESTER - II
Sub : Advanced Software Engineering (MSC-204-22)

Date : 25/05/2024	Total Marks : 30	Time: 10.00 am to 11.30 am

Instruction:

1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagram wherever necessary.*

Q. 1. **Answer the following in short. (Any 4)** **(20)**

1. Describe relationship used in UML.

2. Draw a CLD for Hospital Management System.

3. What are the characteristics of software?

4. Difference between component diagram and deployment diagram.

5. Explain prototyping model along with diagram.

6. Explain SDLC with example.

Q. 2. **Answer the following in detail. (Any 1)** **(10)**

1. Draw activity diagram for student admission process.

2. Draw DFD and ERD for Bus reservation system.