

TILAK MAHARASHTRA VIDYAPEETH, PUNE
MASTER OF COMPUTER APPLICATIONS
EXAMINATION : DECEMBER - 2024
SEMESTER - I

Sub : Software Engineering & Testing (MCA- 103-22)

Date :28/12/2024

Total Marks : 60

Time: 10.00 am to 12.30 pm

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 2 - 3 lines. (Any 5) (10)

1. What are the different levels of software testing?
2. Define SQA.
3. What is SDLC?
4. What is ER diagram?
5. Define agile development.
6. Which diagrams give static view of the system?
7. Define DSS and ESS.

Q. 2. Answer the following in short. (Any 4) (20)

1. What is STLC? Explain.
2. Difference between QA and QC.
3. Describe the technique used in equivalence partitioning?
4. Explain requirement gathering in SDLC.
5. Explain formal and informal reviews?
6. Discuss characteristics of a system.

Q. 3. Answer the following in detail. (Any 3) (30)

1. Explain any 10 quality factors that provide software quality.
2. Draw data flow diagram for flight ticket reservation system.
3. What is software architecture? How does it differ from software design?
4. Describe RAD model with suitable diagram.
5. What are the phases encompassed in the waterfall model?
