PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc(SS) DEGREE EXAMINATION DECEMBER 2023
(Fourth Semester)

Branch – **SOFTWARE SYSTEMS (Five Year Integrated)**

SOFTWARE ENGINEERING TECHNIQUES

Time: Three Hours Maximum: 50 Marks

SECTION-A (5 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks (5 x 1 = 5)

1) What is software?
a) Software is set of programs
b) Software is documentation and configuration of data
c) Software is set of programs, documentation and configuration of data
d) None of the mentioned

2) Which of these does not account for software failure?
a) Increasing Demand
b) Low expectation
c) Increasing Supply
d) Less reliable and expensive

3) What are attributes of good software?
a) Software maintainability
b) Software functionality
c) Software development
d) Software maintainability & functionality

4) Which of these software engineering activities are not a part of software processes?
a) Software dependence
b) Software development
c) Software validation
d) Software specification

5) Which of these does not affect different types of software as a whole?
a) Heterogeneity
b) Flexibility
c) Business and social change
d) Security

SECTION - B (15 Marks)
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 3 = 15)

6) a) Discuss the objectives and benefits of software engineering.
OR
b) Elaborate the stages of evolutionary process model with diagram.

7) a) Determine the implementation of COCOMO model.
OR
b) Summarize the steps for eliciting requirements.

8) a) Enumerate the need of ER diagram in software.
OR
b) Outline the purpose of state transition diagram.

9) a) State the design concepts of software engineering.
OR
b) Explain the usage of decision table in software development.

10) a) Show the study of automated testing tools.
OR
b) Illustrate the importance of software training.

Cont...

SECTION -C (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

11) a) Analyze the factors that influence quality and productivity.
OR
b) Enumerate the phases of waterfall model with diagram.

12) a) Discuss the different techniques of project cost estimation.
OR
b) Examine the view point oriented requirements of software.

13) a) Identify the steps to create a behavioral model.
OR
b) Determine the different types of symbols used in data flow diagrams.

14) a) Discover the purpose of Nassi-Shneiderman diagram.
OR
b) Assume the need of deployment level design elements.

15) a) Elucidate the testing methodologies and debugging methods.
OR
b) Demonstrate the post implementation review in software.

Z-Z-Z END