PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc (SS) DEGREE EXAMINATION DECEMBER 2025
(Sixth Semester)

Branch – SOFTWARE SYSTEMS (Five Years Integrated)

AGILE SOFTWARE DEVELOPMENT

Time: Three Hours   Maximum: 50 Marks

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

1   Which are the three levels of listening in Agile Computing?
(i) Passive, Interactive, and Critical
(ii) Superficial, Engaged, and Empathetic
(iii) Internal, Focused, and Global
(iv) Mechanical, Reflective, and Analytical

2   How do Agile teams function as an "Eco-system"?
(i) They operate in isolation to maintain focus
(ii) They rely on a balance of collaboration, adaptation, and shared goals
(iii) They have strict roles and limited flexibility
(iv) They prioritize individual performance over team success

3   Which Agile methodology focuses on different team sizes, priorities, and risks to determine the best process?
(i) Scrum
(ii) Crystal methodologies
(iii) Kanban
(iv) Extreme Programming (XP)

4   Identify the Agile process model that emphasizes continuous feedback and test-driven development.
(i) Feature-Driven Development (FDD)
(ii) Dynamic Systems Development Method (DSDM)
(iii) Extreme Programming (XP)
(iv) Agile Modeling

5   What is the purpose of Continuous Integration (CI) in Agile testing?
(i) Reducing testing effort by performing fewer tests
(ii) Ensuring that new code changes are integrated and tested frequently
(iii) Delaying testing until the end of development
(iv) Avoiding automation in testing

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

6   a   Analyze the challenges associated with parsing experience in Agile Computing.

OR

b   Illustrate the concept of "Software Engineering Reconstructed" in Agile Computing.

7   a   Discuss the significance of "Conversion Currents of Information" in Agile team communication.

OR

b   Explain how Agile teams function as "Communities.

8   a   Evaluate how Agile methodologies are applied beyond software development.

OR

b   State the core principles of the Agile Software Development Manifesto.

9   a   Classify the key aspects of the Dynamic Systems Development Method (DSDM) and its applications.

<div align="center">OR</div>

     b   Explain the key principles of Extreme Programming (XP).

10   a   Justify the importance of Risk-Based Testing in Agile development.

<div align="center">OR</div>

     b   Discuss the role of Code Refactoring in Agile development.

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SECTION -C (30 Marks)
Answer ALL questions
ALL questions carry EQUAL Marks   (5 x 6 = 30)
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11 a   Evaluate how Agile Computing utilizes success modes to optimize performance.

<div align="center">OR</div>

    b   Assess the significance of "Individuals Over Process" in Agile Computing and its influence on software development.

12 a   Interpret the Agile team as an "Eco-system" and its role in project success.

<div align="center">OR</div>

    b   Analyze the role of communication in Agile teams and its effect on performance.

13 a   Categorize the Crystal methodology and determine their adaptability to various projects.

<div align="center">OR</div>

    b   Elucidate the concept of "Programming as Theory Building" in Agile methodologies.

14 a   Differentiate between Scrum and Extreme Programming (XP).

<div align="center">OR</div>

    b   Enumerate the five key steps of Feature-Driven Development (FDD).

15 a   Appraise the Agile Testing Life Cycle and its effect on software quality.

<div align="center">OR</div>

    b   Justify the importance of Test Automation in Agile testing.

<div align="center">Z-Z-Z   END</div>