

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2024  
(Fifth Semester)

Branch – COMPUTER TECHNOLOGY  
SOFTWARE ENGINEERING

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Software Engineering is a \_\_\_\_\_ Technology.
  - i. Predefined
  - ii. User Defined
  - iii. Layered
  - iv. None of the Above
2. \_\_\_\_\_ provides the appropriate mechanism for understanding what customer wants.
  - i. Reengineering
  - ii. Requirements Engineering
  - iii. Forward Engineering
  - iv. Software Engineering
3. \_\_\_\_\_ refers to the degree to which elements within a module work together to fulfill a single, well-defined purpose.
  - i. Cohesion
  - ii. Design
  - iii. Coupling
  - iv. Traditional
4. White-box testing is called \_\_\_\_\_ testing.
  - i. Unit
  - ii. Black-box
  - iii. System
  - iv. Glass-box
5. \_\_\_\_\_ management is a sequence of steps that help a software team to understand, analyze, and manage uncertainty.
  - i. Risk
  - ii. Testing
  - iii. Analysis
  - iv. Scheduling

SECTION-B (15 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5x3=15)

6. a) Enumerate the Software Process.  
OR  
b) Describe about the Spiral Model.
7. a) Discuss on Feasibility Study.  
OR  
b) Illustrate the concept of Requirement Engineering.
8. a) Explain the Design Process.  
OR  
b). Illustrate the Interface Analysis.
9. a) Write a note on Software Testing fundamentals.  
OR  
b) Brief a note on BPR Model.
10. a) Discuss on Risk Identification.  
OR  
b) Describe the LOC and FP Based Estimation.

Cont...

**SECTION-C (30 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (5x6 = 30)

11. a). Analyze the Evolutionary Process Model in detail.

OR

b). Write brief note on the XP Process.

12. a). Explain about Software Requirements.

OR

b). Describe the Requirements elicitation and analysis.

13. a). Enumerate the Cohesion and Coupling.

OR

b). Analyze the Design concepts with diagram.

14. a). Describe about Basis Path Testing

OR

b). To illustrate the Reverse Engineering concepts.

15. a). Discuss on COCOMO-II Model in detail.

OR

b). Enumerate the Risk Management.

Z-Z-Z      END