

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2024
(Fourth Semester)

Branch – INFORMATION 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 _____ maintenance is usually required for porting the software to work in a new environment.
(i) Corrective (ii) Intuitive
(iii) Adaptive (iv) Perfective
- 2 A module is said to possess _____ cohesion, if different processes of the module co-operate to complete a single task.
(i) Communicational (ii) Functional
(iii) Sequential (iv) Procedural
- 3 The different users of the system are represented in use case by using _____.
(i) Ellipses (ii) Circles
(iii) Rectangles (iv) Stick person icons
- 4 Degree to which the product meets the requirements is called as _____.
(i) Reliability (ii) Conformance
(iii) Durability (iv) Serviceability
- 5 _____ encompasses innate talent, specific software-related skills, and overall knowledge of the process that the team has chosen to apply.
(i) Competence (ii) Common focus
(iii) Collaboration (iv) Decision-making ability

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

- 6 a Contrast on Programs versus Products.
OR
b List out Notable Changes in Software Development Practices.
- 7 a Summarize about Formal System Specification
OR
b Compare the Approaches of Software Design.
- 8 a Analyze about the function of State Chart Diagram.
OR
b Write about Types of User Interfaces.

Cont...

- 9 a Produce the importance of Unit testing.
OR
b Take part in the modern view of a quality factors associates with a software product.
- 10 a Predict the Estimation of Maintenance Cost in Software Maintenance.
OR
b Determine about the human factors involved in agile process.

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a Demonstrate on Classical Waterfall Model.
OR
b Bring the importance of Spiral Model.
- 12 a Classify on Coupling.
OR
b Provide your Overview Opinion of the Design Process.
- 13 a Summarize about Developing the DFD Model of a System.
OR
b Elaborate on Basic Object-Oriented Concepts.
- 14 a Appraise about Testing.
OR
b Organize a note on Software Reliability.
- 15 a Interpret about Software Maintenance Process Models.
OR
b Inspect about Extreme Programming in Agile Development.

Z-Z-Z

END