

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022
(Third 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. Software is defined as _____
 - (i) set of programs, documentation & configuration of data
 - (ii) set of programs
 - (iii) documentation and configuration of data
 - (iv) None of the mentioned

2. Which of the following models doesn't necessitate defining requirements at the earliest in the lifecycle?
 - (i) RAD Model
 - (ii) Prototyping & Waterfall
 - (iii) Spiral & Prototyping
 - (iv) Spiral & RAD

3. Which of the following costs is not part of the total effort cost?
 - (i) Costs of networking and communications
 - (ii) Costs of providing heating and lighting office space
 - (iii) Costs of lunch time food
 - (iv) Costs of support staff

4. _____ is the process of translating a task into a series of commands that a computer will use to perform that task.
 - (i) Project
 - (ii) Installation
 - (iii) System Analysis
 - (iv) Programming

5. Software testing is one element of a broader topic that is often referred to as _____.
 - (i) Verification
 - (ii) Validation
 - (iii) Verification and Validation (V&V)
 - (iv) None of these

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Explain the importance of Software Engineering.
OR
b. Show the issues in managing Projects in a company.

- 7 a. How to define a Problem in Software Engineering? Explain.
OR
b. Outline the importance of Planning a Project in Software Engineering.

- 8 a. Narrate Software Cost factors in detail.
OR
b. Sketch the essentials of Software Requirements in a project.

Cont...

- 9 a. Summarize the Issues in Fundamental Design.
OR
b. Bring out the importance of Structured Coding Technique.
- 10 a. State Quality Assurance in Software Engineering.
OR
b. Classify the Tools available to maintain a Software.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Analyze the Size Factors in Software Engineering.
OR
b. Distinguish Quality and Productivity factors in Software Engineering.
- 12 a. Infer Planning a Software Project.
OR
b. Point out the importance of Development Process in a Project.
- 13 a. Trace Software Requirements in a Project.
OR
b. Elucidate PSL/PSA.
- 14 a. Highlight the Criteria for Modularization.
OR
b. Summarize the Guidelines to Design a project.
- 15 a. Discuss Unit Testing.
OR
b. Examine System Testing.

Z-Z-Z END