

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION DECEMBER 2022
(Fifth Semester)**

Branch – COMPUTER SCIENCE

SOFTWARE ENGINEERING AND DESIGN

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 x 1 = 10)

- 1 Software is not _____ to the environmental maladies that cause hardware to wear out.
(i) Susceptible (ii) Classical
(iii) Modern (iv) Debased
- 2 Agile software process is characterized in a manner that addresses a number of _____ assumptions..
(i) Linear (ii) key (iii) peripheral (iv) secondary
- 3 The Information obtained from the customer during inception and elicitation is expanded and refined during _____.
(i) Specification (ii) Elicitation
(iii) Elaboration (iv) Negotiation
- 4 _____ is the most common manifestation of separation of concerns.
(i) Refactoring (ii) Information Hiding
(iii) Aspects (iv) Modularity
- 5 A Project Manager uses estimation to verify that delivery dates are _____.
(i) Achievable (ii) Schedule Dependencies
(iii) Quality Control (iv) Risk Planning
- 6 Expand BPR _____.
(i) Business Practice Re-Engineering (ii) Business Process Re-Engineering
(iii) Business People Re-Engineering (iv) Beta Process Re-Engineering
- 7 Problem Decomposition sometimes called _____.
(i) Function and Performance (ii) Information Objectives
(iii) Context (iv) Problem Elaboration
- 8 _____ Estimates on similar projects that have been already been completed..
(i) Effort (ii) Delay
(iii) Cost (iv) Base
- 9 _____ Goal of this group is organizational change that might lead to a better software Process.
(i) Ideologists (ii) Tool Advocates
(iii) Practitioners (iv) Reformers
- 10 _____ Detailed software process and product quality metrics establish the quantitative evaluation foundation..
(i) Optimized (ii) Managed (iii) Defined (iv) Repeatable

SECTION - B (25 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 5 = 25)

- 11 a Analyze in detail about Defining a Framework Activity in Process Model with neat diagram.

OR
- b Explain in brief about the Agile Unified Processing in Agile Development with example.

Cont...

- 12 a Describe in detail about Elicitation Work Products in Eliciting Requirements with example.
OR
b Outline in brief about Activity Diagram for Access Camera Surveillance using UML Models.
- 13 a Bring out in detail about the Graph-Based Testing Methods in Black-Box Testing with example.
OR
b. Categorize the different Consistency of Object-Oriented Models with example.
- 14 a Explain in brief about the Software Scope and Problem Description in Product used in Project Management Concepts with Example.
OR
b Outline in detail about the Business Process Reengineering Model with neat diagram..
- 15 a Show with example various Levels used in Maturity Models in Software Process Improvement with example. .
OR
b Explain with example Modern-Driven Software Development with example.

SECTION -C (40 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 8 = 40)

- 16 a Elucidate in detail about various types of Software Myths with example
OR
b Explain in brief about Agile Modeling in Agile Development with example.
- 17 a Point Out in detail about Swimlane Diagram for access Camera Surveillance via Internet using UML with neat diagram.
OR
b Analyze in brief about Interface Design Elements in Design Concepts diagram with example.
- 18 a Enumerate in detail about the various types of System Testing with example.
OR
b Examine in detail about different Interface Testing Strategy in User Interface Testing with example.
- 19 a Classify the different types of Reverse Engineering with neat diagram.
OR
b Outline in detail about various Forward Engineering with neat diagram.
- 20 a Point out in brief about the Following with example.
(i) Education and Training in Software Process Improvement.
(ii) Critical Success Factors in Software Process Improvement .
OR
b Discuss in detail various Level used in Capability Maturity Model Integration (CMMI) with neat diagram. .