TECHNOLOGICAL UNIVERSITY OF THE PHILIPPINES VISAYAS

Capt. Sabi St., City of Talisay, Negros Occidental

OFFICE OF THE COLLEGE DEAN

MIDTERM EXAM

SOFTWARE ENGINEERING

1ST SEMESTER, 2023-2024

QUESTIONAIRE

1.) What is the primary purpose of a 'use case' in software development?
A. To describe a specific scenario within the code
B. To highlight potential system vulnerabilities
C. To identify problems in the user interface
D. To define interactions between users and the software system

2.) What is the purpose of version control systems like Git in software development?
A. To manage and track changes in source code and facilitate collaboration among developers
B. To compile and debug code errors
C. To design the graphical user interface
D. To test software against various operating systems

3.) What does the term "CI/CD" stand for in the software development process?
A. Continuous Integration/Continuous Deployment
B. Code Integration/Code Deployment
C. Comprehensive Integration/Continuous Design
D. Continuous Inspection/Code Deployment

4.) What is the purpose of "pair programming" in Agile Software Development?
A. To minimize the number of team members
B. To optimize individual productivity
C. To foster collaboration and enhance software quality
D. To manage the development timeline

5.) What is the purpose of the "Requirement Analysis" phase in Software Development?
A. To ensure that the software is bug-free
B. To define the features, functions, and constraints of the software
C. To create a user-friendly interface
D. To ensure the compatibility of software with various devices

6.) In the context of software development, what is the purpose of the "SRS" document?
A. To list software resources and storage
B. To specify the system's requirements and functionalities
C. To showcase user interface designs
D. To document system testing results

7.) Which phase of the Software Development Lifecycle involves detailed planning and the creation of a project roadmap?
A. Requirements Analysis
B. Design
C. Implementation
D. Planning

8.) Which testing method examines the software's functionality against the specified requirements?
A. Integration Testing
B. Regression Testing
C. Acceptance Testing
D. System Testing

9.) Which testing method assesses individual units or components of a software application independently?
A. Integration Testing
B. System Testing
C. Unit Testing
D. Acceptance Testing

10.) What is the term for software testing that assesses whether the software can be successfully installed, configured, and uninstalled?
A. Installation Testing
B. Regression Testing

C. Stress Testing
D. Usability Testing

11.) What does UML stand for in software engineering?
A. Unified Modeling Language
B. Uniform Modeling Logic
C. Universal Markup Language
D. Unique Model Link

12.) What does the term "SDLC" stand for in Software Engineering?
A. Software Development Lifecycle
B. Systematic Design and Logical Control
C. Systematic Deployment of Logical Code
D. Software Design and Logical Continuity

13.) What does the term "API" stand for in the context of software development?
A. Application Programmed Interface
B. Automated Programming Interface
C. Advanced Programming Instruction
D. Application Programming Interface

14.) What does "SCRUM" represent in Agile Software Development?
A. An iterative and incremental approach to software development
B. A project management framework with roles, events, and artifacts
C. A technique for software testing and validation
D. A design pattern for user interface development

15.) What is the role of a software requirement specification in the development process?
A. To document how to use the software
B. To define user interfaces
C. To capture and communicate the system's intended behavior and constraints
D. To create architectural diagrams

16.) Which software development model emphasizes the creation of prototypes to better understand user needs and system requirements?
A. Spiral Model
B. V-Model
C. Agile Model
D. Prototyping Model

17.) Which development process involves breaking down the project into smaller segments and completing them iteratively?
A. Waterfall Model
B. Spiral Model
C. Incremental Model
D. V-Model

18.) What is the main goal of the "Planning" phase in the Software Development Lifecycle?
A. To execute the code
B. To gather and analyze requirements
C. To define the structure of the software
D. To create a project roadmap and schedule

19.) In the context of software engineering, what is "agile" focused on?
A. Creating a single, extensive software release
B. Adapting to changing requirements and delivering increments of software
C. Structured, rigid development processes
D. Writing comprehensive documentation before coding

20.) What does the term "API" stand for in software development?
A. Application Programmed Interface
B. Automated Programming Interface
C. Advanced Programming Instruction
D. Application Programming Interface

21.) In software development, what is the purpose of "unit testing"?
A. To test the software as a whole before release
B. To examine the individual units or components of the software
C. To validate the software against user requirements
D. To assess the system's behavior in various environments

22.) What is the primary goal of a 'use case' in software development?

A. To outline the specific functions of a class
B. To illustrate the interaction between users and the software system
C. To specify the acceptance criteria for software features
D. To define the layout and design of the user interface

23.) Which software development process involves the continuous feedback loop for constant improvement?
A. Waterfall Model
B. Agile Model
C. V-Model
D. Spiral Model

24.) Which type of testing is performed to validate if the software works in different environments, configurations, and conditions?
A. Integration Testing
B. Regression Testing
C. System Testing
D. Acceptance Testing

25.) In software development, what does the acronym "OOP" commonly represent?
A. Operational Object Processing
B. Output Oriented Programming
C. Object-Oriented Programming
D. Open-Source Protocol

26.) What is the primary purpose of a version control system like Git in software development?
A. To design graphical user interfaces
B. To manage and track changes in source code and facilitate collaboration among developers
C. To compile and debug code errors
D. To test software across different operating systems

27.) Which development methodology relies on frequent, small incremental releases with constant user feedback?
A. Waterfall Model
B. Iterative Model
C. V-Model
D. Agile Model

28.) Which software development model is known for its sequential phases of Requirement Analysis, Design, Implementation, Testing, Deployment, and Maintenance?
A. Agile Model
B. Waterfall Model
C. Spiral Model
D. V-Model

29.) What is the purpose of "Regression Testing" in software development?
A. To validate the system against the requirements
B. To test the entire system after changes to ensure no new defects arise
C. To verify the code written by a particular developer
D. To examine system performance under stress

30.) Which software development model emphasizes the development process in a series of repeated cycles, allowing for constant refinement?
A. Waterfall Model
B. V-Model
C. Spiral Model
D. Iterative Model

MIDTERM EXAM

SOFTWARE ENGINEERING

1ST SEMESTER, 2023-2024

Name: _____ Yr. & Sec. _____

Last Name   First Name   M.I

Instructor: _____ Proctor: _____ Date: _____

ANSWERSHEET

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