



BRAINWARE UNIVERSITY

Term End Examination 2021 - 22

Programme – Bachelor of Technology in Computer Science & Engineering

Course Name – Software Engineering

Course Code - BCSE601

(Semester VI)

Time allotted : 1 Hrs.25 Min.

Full Marks : 70

[The figure in the margin indicates full marks.]

Group-A

(Multiple Choice Type Question)

1 x 70=70

Choose the correct alternative from the following :

- (1) Which of the following is an activity that distributes estimated effort across the planned project duration by allocating the effort to specific software engineering tasks?
 - a) Software Macroscopic schedule
 - b) Software Project scheduling
 - c) Software Detailed schedule
 - d) None of the mentioned
- (2) If an Indirect approach is taken, then the sizing approach is represented as
 - a) LOC
 - b) FP
 - c) Fuzzy Logic
 - d) LOC & FP
- (3) Programming language experience is a part of which factor of COCOMO cost drivers?
 - a) Personnel Factor
 - b) Product Factor
 - c) Platform Factor
 - d) Project Factor
- (4) Which of the following is not one of the five information domain characteristics of Function Point (FP) decomposition?
 - a) External Inputs
 - b) External Outputs
 - c) External Process
 - d) External Inquiries
- (5) Who suggested the four different approaches to the sizing problem?
 - a) Putnam
 - b) Myers
 - c) Boehm
 - d) Putnam and Myers
- (6) How many forms exist of Barry Boehm's COCOMO Model?
 - a) Two
 - b) Three
 - c) Four
 - d) None from Exists
- (7) If a Direct approach to software project sizing is taken, size can be measured in
 - a) LOC
 - b) FP
 - c) LOC & FP
 - d) None of the mentioned
- (8) Which of the following strategies means that the impact of the risk will be reduced?
 - a) Avoidance strategies
 - b) Minimization strategies
 - c) Contingency plans
 - d) All of the mentioned

- a) Performance
c) Design Solutions
- b) Functionality
d) External Interfaces
- (23) Consider the following Statement: “The output of a program shall be given within 10 secs of event X 10% of the time.” What characteristic of SRS is being depicted here?
- a) Consistent
c) Non- verifiable
- b) Verifiable
d) Correct
- (24) Considering the example of issue/return of a book, cataloging etc. in a library management. What type of management requirement is being depicted here?
- a) Enduring
c) Both enduring and Volatile
- b) Volatile
d) All of the mentioned
- (25) Which of these software engineering activities is not a part of software process?
- a) Software verification
c) Software validation
- b) Software dependence
d) None of these
- (26) The reason for software bugs and failures is due to
- a) Software companies
c) Both a & b
- b) Software Developers
d) None of these
- (27) The importance of software design can be summarized in a single word
- a) accuracy
c) efficiency
- b) complexity
d) quality
- (28) Which of these are characteristics of a good design?
- a) exhibits strong coupling between its modules
c) Provides a complete picture of the software
- b) implements all requirements in the analysis model
d) both b & c
- (29) Which of the following is not a characteristic common to all design methods?
- a) configuration management
c) quality assessment guidelines
- b) functional component representation
d) refinement heuristics
- (30) Which of the following is not a characteristic common to all design methods?
- a) configuration management
c) quality assessment guidelines
- b) functional component representation
d) refinement heuristics
- (31) The importance of software design can be summarized in a single word which is:
- a) Efficiency
c) Quality
- b) Accuracy
d) Complexity
- (32) Coupling is a qualitative indication of the degree to which a module
- a) can be written more compactly
c) is able to complete its function in a timely manner
- b) focuses on just one thing
d) is connected to other modules and the outside world
- (33) What encapsulates both data and data manipulation functions? a. b. c. d.
- a) Object
c) Super class
- b) Class
d) Sub class
- (34) Which of the following is a disadvantage of OOD?
- a) Easier maintenance
c) Objects are potentially reusable components
- b) Objects may be understood as stand-alone entities
d) None of the mentioned
- (35) The context diagram is also known as
- a) Level-0 DFD
c) Level-2 DFD
- b) Level-1 DFD
d) All of the mentioned
- (36) A directed arc or line in DFD represents
- a) Data Store
c) Data Flow
- b) Data Process
d) All of the mentioned

- (37) The spiral model was originally proposed by
- a) Barry Boehm
 - b) Pressman
 - c) Royce
 - d) None of above
- (38) What is the final outcome of the requirements analysis and specification phase a. b. c. d.
- a) drawing the data flow diagram
 - b) the SRS document
 - c) testing the project
 - d) none of these
- (39) Which one of the following is NOT desired in a good Software Requirement Specifications (SR S) document?
- a) Functional dependency
 - b) Algorithms for Software Implementation
 - c) Non Functional Requirements
 - d) Goals of design
- (40) What is the appropriate pairing of items in the two columns listing various activities encountered in a software life cycle? P. Requirements Capture 1.Module Development and Integration Q. Design 2.Domain Analysis R. Implementation 3.Structural and Behavioral Modeling S. Maintenance 4.Performance Tuning a. b.
- a) P-3, Q-2, R-4, S-1
 - b) P-2, Q-3, R-1, S-4
 - c) P-3, Q-2, R-1, S-4
 - d) P-2, Q-3, R-4, S-1
- (41) What is Cyclomatic complexity?
- a) Black box testing
 - b) White box testing
 - c) Yellow box testing
 - d) Green box testing
- (42) Which of the following is/are White box technique?
- a) Statement Testing
 - b) Decision Testing
 - c) Condition Coverage
 - d) All of the mentioned
- (43) Alpha testing is done at
- a) Developer's end
 - b) User's end
 - c) Developer's & User's end
 - d) None of the mentioned
- (44) . The testing in which code is checked
- a) Black box testing
 - b) White box testing
 - c) Red box testing
 - d) Green box testing
- (45) Testing done without planning and Documentation is called
- a) Unit testing
 - b) Regression testing
 - c) Adhoc testing
 - d) None of the mentioned
- (46) What is Functional Testing? a. b. c. d.
- a) SDLC Model
 - b) Test Type
 - c) Test Design Technique
 - d) Test Level
- (47) What are the various Testing Levels?
- a) Unit Testing
 - b) System Testing
 - c) Integration Testing
 - d) All of the mentioned
- (48) Acceptance testing is also known as
- a) Grey box testing
 - b) White box testing
 - c) White box testing
 - d) Beta testing
- (49) Which of the following is non-functional testing?
- a) Black box testing.
 - b) Performance testing
 - c) Unit testing
 - d) None of the mentioned
- (50) Beta testing is done at
- a) User's end
 - b) Developer's end
 - c) User's & Developer's end
 - d) None of the mentioned.
- (51) Behavioral testing is

- a) White box testing
c) Grey box testing
- (52) Which of the following is black box testing
a) Basic path testing
c) Code path analysis
- (53) Software Maintenance includes
a) Error corrections
c) Deletion of obsolete capabilities
- (54) Maintenance is classified into how many categories?
a) Two
c) Four
- (55) Which selective retest technique selects every test case that causes a modified program to produce a different output than its original version?
a) Coverage
c) Safe
- (56) Which regression test selection technique exposes faults caused by modifications?
a) Efficiency
c) Generality
- (57) Which of the following manuals is not a user documentation
a) Beginner's Guide
c) Reference Guide
- (58) Which of the following is not an appraisal cost in SQA?
a) Maintenance
c) quality planning
- (59) Who identifies, documents, and verifies that corrections have been made to the software?
a) Project manager
c) SQA Group
- (60) Which of the following is not included in External failure costs?
a) Testing
c) warranty work
- (61) CMM Stands for?
a) Capability Management Module
c) Capability Maturity Module
- (62) According to ISO 9001, the causes of nonconforming product should be
a) Deleted
c) Identified
- (63) ISO 9001 is not concerned with _____ of quality records.
a) Collection
c) Verification
- (64) In CMM, the life cycle activities of requirements analysis, design, code, and test are described in a. b. c. d.) d)
a) Software Product Engineering
c) Software Subcontract Management
- (65) Which of the following requires design control measures, such as holding and recording design reviews and qualification tests?
a) CMM
c) ISO 9000-3
- b) Black box testing
d) None of the mentioned
- b) Boundary value analysis
d) None of the mentioned
- b) Enhancements of capabilities.
d) All of the mentioned
- b) Three
d) Five
- b) Minimization
d) Maximization
- b) Precision
d) Inclusiveness
- b) Installation guide
d) SRS
- b) inter-process inspection
d) Testing
- b) Project Team
d) All the mentioned above
- b) help line support
d) Complaint resolution
- b) Conservative Maturity Model
d) Capability Maturity Model
- b) Eliminated
d) eliminated and identified
- b) Maintenance
d) dis-positioning
- b) Software Quality Assurance
d) Software Quality Management
- b) ISO 9001
d) None of the mentioned

- (66) Which of the following is not considered as a risk in project management?
- a) Specification delays
 - b) Product competition
 - c) Testing
 - d) Staff turnover
- (67) The process each manager follows during the life of a project is known as
- a) Project Management
 - b) Manager life cycle
 - c) Project Management Life Cycle
 - d) All of the mentioned
- (68) A 66.6% risk is considered as
- a) very low
 - b) low
 - c) moderate
 - d) High
- (69) Which of the following is/are main parameters that you should use when computing the costs of a software development project?
- a) travel and training costs
 - b) hardware and software costs
 - c) effort costs (the costs of paying software engineers and managers)
 - d) all of the mentioned
- (70) Quality planning is the process of developing a quality plan for
- a) Team
 - b) Project
 - c) Customers
 - d) project manager