

- (a) Unbalanced
 (b) Presence of Synchronous data flow
 (c) Presence of asynchronous data flow
 (d) Presence of Control information
- vi The modules in a good software design should have which one of the following characteristics? 1
 (a) High cohesion, low coupling
 (b) Low cohesion, high coupling
 (c) Low cohesion, low coupling
 (d) High cohesion, high coupling
- vii Pick the correct statement from the following. 1
 (a) Every error causes a failure
 (b) Every error causes a fault
 (c) Every failure is caused by a fault
 (d) Every bug causes a failure
- viii Of the following, who conducts acceptance testing? 1
 (a) The development teams
 (b) The test teams
 (c) A set of friendly clients
 (d) Customer
- ix Which one of the following is an example of a negative test case? 1
 (a) A test designated to crash the software
 (b) A test designated with negative integral values
 (c) A test case causing software failure
 (d) A test case with values outside the valid range of values
- x Exploratory testing is a -----? 1
 (a) Experience-based Test Design Technique
 (b) White Box Test Design Technique
 (c) Black Box Test Design Technique
 (d) Grey Box Test Design Technique
- Q.2 Attempt Any Two
- i. Describe the two Quantitative criteria of functional independence? 5
 ii. List five desirable characteristics that a good user interface should possess 5
 iii. Explain the various design concepts 5
- Q.3 i. Distinguish between error and failure? Testing detects which of these two? Justify your answer? 2
 ii. Suppose a developed software has passed all the three levels of testing i.e unit testing integration testing and system testing. Can we claim that the software is defect free?? Justify your Answer 3
 iii. Usability of software product is tested during which type of testing? Also explain all the three testing phases? 5
- OR iv Identify the type of information which should be presented in the test summary report? 5

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- Colour the inner-most triangles with different colours.

Total No. of Questions: 3

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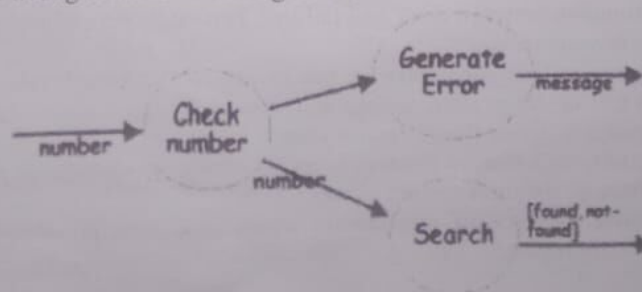


Faculty of Engineering
Mid Sem -II Examination November- 2022
CS3C026 Software Engineering

Programme: B.Tech.
Duration: 1.5 Hrs.

Branch/Specialisation: All
Maximum Marks: 30

- Q.1 i. Which one of the following is not an objective of the high-level design activity? 1
- (a) To identify the important components of the system
 - (b) To design the layering among the components of the system
 - (c) To design the algorithms used in different components
 - (d) To identify the call relationships among different components
- ii. Which one of the following types of cohesion can be considered as the best form of cohesion? 1
- (a) Logical
 - (b) Coincidental
 - (c) Temporal
 - (d) Functional
- iii. Which one of the following types of cohesion can be considered as the best form of cohesion? 1
- (a) Logical
 - (b) Coincidental
 - (c) Temporal
 - (d) Functional
- iv. Which one of the following is true of a function-oriented design approach? 1
- (a) Top-down
 - (b) Bottom-up
 - (c) Mixed-in
 - (d) Bottom-out
- v. What is wrong with the following DFD? 1



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