## 12 Lecture - CS504

## **Important Mcqs**

Coupling in software design refers to: a) The degree of relatedness within a module b) The degree of interdependence between modules c) The degree of encapsulation within a class d) The degree of inheritance in an object-oriented system Solution: b) The degree of interdependence between modules Cohesion in software design refers to: a) The degree of relatedness within a module b) The degree of interdependence between modules c) The degree of encapsulation within a class d) The degree of inheritance in an object-oriented system Solution: a) The degree of relatedness within a module Which of the following is an example of low coupling? a) A module that relies on another module's internal implementation details b) A module that communicates with other modules through well-defined interfaces c) A module that shares global variables with other modules d) A module that directly modifies the internal state of another module Solution: b) A module that communicates with other modules through well-defined interfaces Which type of coupling is considered the most desirable? a) Content coupling b) Stamp coupling c) Control coupling d) Data coupling Solution: d) Data coupling Which type of cohesion is considered the most desirable? a) Coincidental cohesion b) Logical cohesion c) Sequential cohesion d) Functional cohesion Solution: d) Functional cohesion Which type of cohesion indicates that a module performs multiple unrelated functions? a) Coincidental cohesion b) Logical cohesion c) Sequential cohesion d) Functional cohesion Solution: a) Coincidental cohesion Which type of coupling indicates a strong dependency between modules? a) Loose coupling b) Tight coupling c) External coupling d) Control coupling Solution: b) Tight coupling Which type of cohesion indicates that a module performs functions in a specific order? a) Coincidental cohesion b) Logical cohesion c) Sequential cohesion d) Functional cohesion Solution: c) Sequential cohesion Which type of coupling indicates that one module directly modifies the internal state of another module? a) Message coupling b) Data coupling c) Content coupling d) Control coupling Solution: c) Content coupling Which type of cohesion indicates that a module groups together functions that operate on the same data? a) Coincidental cohesion b) Logical cohesion c) Sequential cohesion d) Functional cohesion Solution: b) Logical cohesion