St. Francis Institute of Technology
Borivali (West), Mumbai-400103

Information Technology Department

Academic Year: 2022-2023 **Semester: IV**
Class / Branch / Division: SE - IT A/B
Subject: Paradigms and Computer Programming Fundamentals

PCPF IAT – 1
QUESTION BANK

Short Qs

1. Differentiate between compiler and interpreter.
2. Define programming paradigm.
3. Differentiate between imperative and declarative programming paradigm.
4. Define names, scopes and binding.
5. Define static and dynamic binding. Illustrate with examples.
6. Differentiate between static and dynamic scoping.
7. Define type checking.
8. What is the significance of type checking?
9. Define event and co-routine.
10. Enlist the characteristics of OOP Language.
11. Differentiate between Encapsulation and Abstraction.
12. Differentiate between Encapsulation and Inheritance.
13. Differentiate between Inheritance and Abstraction.
14. Define what is functional Programming.
15. Define What is Lambda Calculus
16. Explain the syntax of Lambda expression.
17. Why Haskell is pure functional language?
18. Differentiate between Encapsulation and Abstraction.
19. Differentiate between Encapsulation and Inheritance.
20. Differentiate between Inheritance and Abstraction

Long Qs

21. What is exception handling? Explain with a Java code example.
22. Explain Storage mechanisms with examples of each.
23. Define the following and give a programming example of each of them.
    a. Object
    b. Class
    c. Encapsulation
    d. Abstraction
    e. Inheritance
    f. Polymorphism
24. Solve some examples of lambda calculus.
25. Explain the data type in Haskell with an example of each one.

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