PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2024
(Sixth Semester)

Branch – NETWORKING AND MOBILE APPLICATION

iOS PROGRAMMING

Time: Three Hours   Maximum: 50 Marks

SECTION-A (5 Marks)
Answer ALL questions
ALL questions carry EQUAL marks   (5 x 1 = 5)

1   Who developed Swift as an open-source programming language?
    (i) Google   (ii) IBM
    (iii) Facebook   (iv) Apple

2   Identify the number of targets that a Ternary operator operates on
    (i) 1   (ii) 2
    (iii) 3   (iv) 4

3   Which keyword is used to define a function in swift?
    (i) var   (ii) func
    (iii) string   (iv) struct

4   Choose: Deriving the properties of parent class to child class is known as
    (i) Inheritance   (ii) Polymorphism
    (iii) Message Passing   (iv) Overloading

5   Mention the collection types in Swift.
    (i) Array and Library   (ii) Dictionary and Array
    (iii) Dictionary and Library   (iv) Array and List

SECTION - B (15 Marks)
Answer ALL Questions
ALL Questions Carry EQUAL Marks   (5 x 3 = 15)

6   a Outline the working of UIKit in Playgrounds.
                            OR
    b Explain Swift variables and constants.

7   a Explain the repeat...while loop statement in swift with example.
                            OR
    b Analyze guard statement in swift with an example.

8   a Describe Switch statement with Fallthrough in swift with an example.
                            OR
    b Develop a Swift Program to demonstrate In-Out Parameters.

9   a Explain how to declare and initialize a class instance in Swift.
                            OR
    b Summarize about swift class extensions.

10 a Compare Arrays and Dictionaries.
                            OR
    b Explain how to use defer statement in error handling.

SECTION -C (30 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** Marks   (5 x 6 = 30)

11 a Enumerate how to add resources to a playground in swift.

OR

b Elucidate Type casting and Type checking in swift with suitable examples.

12 a Categorize Bitwise and compound Bitwise operators in Swift.

OR

b Classify the conditional flow statements with examples.

13 a Discuss about Switch Statement and explain how to perform range matching in a switch statement.

OR

b Summarize Closures and Closure expressions in Swift.

14 a Elucidate how to call a method and access its properties using a class instance.

OR

b Examine method overriding in swift with an example.

15 a Discuss about how to access and update dictionary items.

OR

b Highlight Error handling concepts and list out the steps for handling errors in swift.

Z-Z-Z   END