18CCP21

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MCom(CA) DEGREE EXAMINATION MAY 2023
(Fourth Semester)

Branch – **COMMERCE WITH COMPUTER APPLICATION**

JAVA PROGRAMMING

Time: Three Hours Maximum: 50 Marks

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

1. The wrapping up of data and methods into single unit is known as _____.
   i) Inheritance ii) Abstraction iii) Encapsulation iv) Dynamic binding

2. A package is a collection of _____.
   i) objects ii) Classes iii) editing tools iv) Methods

3. Java Communicates with a web page through a special tag called_____.
   i)Applet ii) PARAM iii) HTML iv) DHTML

4. When does Exceptions in Java arises in code sequence?
   i) Run Time ii) Compilation Time
   iii) Can Occur Any Time iv) Both compile time and run time

5. JDBC Architecture consists of _____ layers.
   i) 2 ii) 3 iii) 4 iv) 5

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

6. a) What is class and object? How are they created?
   OR
   b) Write a java program to find the factorial of a given number.

7. a) Discuss about the java API packages.
   OR
   b) How to define an interface?

8. a) Mention the two different kinds tools used to run an Applet.
   OR
   b) Write a java program using applet code for drawing human face.

9. a) How to throw our own exceptions? Explain.
   OR
   b) Discuss about character stream classes in java.

10. a) List out the five different responsibilities of JDBC API provided for connecting with databases.
   OR
   b) How to modify a record in JDBC application?

Cont...

SECTION -C (30 Marks)

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

11. a) Describe in detail the typical structure of a java program.

OR

b) Elucidate the method overloading in java with example.

12. a) Explain the implementation of interfaces with example code.

OR

b) Discuss about the various states of thread life cycle with neat diagram.

13.a) With neat diagram, express the applet life cycle in detail.

OR

b) Describe the windows fundamentals and the AWT class hierarchy.

14. a) Elucidate the various kinds of common java exceptions.

OR

b) Give detailed notes on I/O stream classes in java.

15. a) With neat sketch, express the JDBC architecture in detail.

OR

b) Illustrate the various steps for creating a JDBC application.

Z-Z-Z END