

(FOR THE CANDIDATES ADMITTED

DURING THE ACADEMIC YEAR 2020-2023 ONLY)

20UBC519

REG.NO.:

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS : DECEMBER-2022

COURSE NAME : B.C.A

MAXIMUM MARKS: 70

SEMESTER : V

TIME : 3 HOURS

**PART - III**

**JAVA PROGRAMMING**

**SECTION - A**

**(10 X 1 = 10 MARKS)**

**ANSWER THE FOLLOWING QUESTIONS.**

**MULTIPLE CHOICE QUESTIONS.**

**(K1)**

- Which component is used to compile, debug and execute the java programs?  
a) JRE                      b) JIT                      c) JDK                      d) JVM
- Identify the correct definition of a package\_\_\_\_\_.  
a) A package is a collection of editing tools                      b) A package is a collection of classes  
c) A package is a collection of classes & interfaces                      d) A package is a collection of interface
- Which method is called only once during the run time of your applet?  
a. stop()                      b. paint()                      c. init()                      d. destroy()
- Which is a component in AWT that can contain another components like buttons, text fields, labels etc.?  
a. A. Window                      b. Container                      c. Panel                      d. Frame
- A servlet maintain session in\_\_\_\_\_.  
a. Servlet container                      b. Servlet context  
c. Servlet request heap                      d. Servlet response heap

**ANSWER THE FOLLOWING IN ONE (OR) TWO SENTENCES**

**(K2)**

- When an array is passed to a method, what does the method receive?
- Illustrate the correct syntax to import package into java class.
- Which method is to be invoked immediately after the start() method and also any time the applet needs to repaint itself in the browser?
- Which method can set or change the text in a Label?
- What is servlet?

**SECTION – B**

**(5 X 4 = 20 MARKS)**

**ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. (K3)**

11. a) Describe various data types available in java.

**(OR)**

- b) Examine the concept of decision making and looping statement.

**(CONTD .... 2)**

12. a) Narrate how to access interface variables.  
(OR)  
b) Describe the concept of adding a class to a package.
13. a) Examine the applet methods to draw lines and rectangles.  
(OR)  
b) Explain the procedure in adding applet to HTML file.
14. a) Compare the purpose and usage of Check Box & Radio Button in Swing.  
(OR)  
b) Examine the construction in JButton Class in Swing.
15. a) Describe the reasons for using Java Servlets  
(OR)  
b) Illustrate the working life cycle of servlet.

**SECTION - C****(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16<sup>th</sup> QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS  
(FROM Qn. No : 17 to 21) (K4 (Or) K5)**

16. Construct a Java Program to sort the given array values in ascending order.
17. Categorize the various operators and expressions available in java.
18. Evaluate the mechanism of Exception Handling in Java with Example.
19. Explain the overall life cycle of applet with neat diagram.
20. Analyze JMenus and its applications.
21. Discuss Java Servlet Architecture.

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