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Paper Code : 21323

F-423

**B.C.A. (Fifth Semester) Examination, 2021
(New Course)**

Paper-BCA-503-N

INTRODUCTION TO INTERNET PROGRAMING

Time : Three Hours] [Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks. Symbols used have their usual meanings.

1. (a) What are cookies and session objects?
Where do we use them?
- (b) Differentiate between AWT and Swing components.
2. (a) Differentiate between Application and Applet.

P.T.O.

- (b) What is a constructor and what is it used for? What statements can a constructor contain? What is its return type?
3. (a) Explain switch-case statement with example. What restrictions are placed on the values of each case of a switch statement?
- (b) Explain following terms:
 - (i) extends
 - (ii) synchronized
 - (iii) protected
 - (iv) implements
4. (a) Write an Applet showing the sequence of method executed during the life cycle of an applet.
- (b) What does Application programming interface mean? Explain few Application programming interface packages.

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5. What is String in Java? Explain any three constructors of String class. Write a program in Java to find length of a given string and display the string in upper case.

6. (a) Explain Active X.

(b) What is client-side scripting and server-side scripting in Java?

7. (a) What are interfaces in Java? What do you understand by 'implementing interfaces'? Explain with the help of an example.

(b) Differentiate between overloading and overriding. Giving examples.

8.. Explain following terms with reference to Java:

(i) Import

(ii) Classpath

(iii) Inheritance

(iv) Event