

Total No. of Questions : 8] [Total No. of Printed Pages : 3

**Paper Code : 21323**

**F-423**

**B.C.A. (Fifth Semester) Examination, 2018**

**(New Course)**

Paper-BCA-503-N

**INTRODUCTION TO INTERNET PROGRAMING**

Time : 3 Hours ] [ Maximum Marks : 70

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

1. (a) What is Java Class ? What do you understand by Access Specifier ? Explain.  
(b) Explain Looping in Java ? Also explain its types.
2. (a) How is multiple inheritances achieved in Java ? Explain with suitable example.  
(b) Explain String Buffer Class with the help of an example.

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Turn Over

3. (a) Differentiate overloading and overriding. Explain with suitable example.  
(b) What is constructor in Java ? Explain with suitable example.
4. (a) Draw the inheritance hierarchy for the frame and component classes in AWT.  
(b) What do you understand by API, MAPI and SNA APIs ?
5. (a) How do we define interfaces in Java ? Explain with the help of an example.  
(b) Write a Java program for swapping two numbers ? <http://www.mjpruonline.com>
6. (a) What are Java Package and which package is imported by default ?  
(b) What is the main difference between an application and an applet ?
7. (a) What is an advantage of creating Active X Controls ? Explain.  
(b) Explain Java primitive type and reference type.

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8. Write short notes on the following :

- (a) ASP
- (b) String Class
- (c) Abstract Class
- (d) Telephony API.

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