

S.No. : 21

BCA 2403

No. of Printed Pages : 04

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 21118

Roll
No.

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BCA Examination 2021-22

(Even Semester)

INTERNET & JAVA PROGRAMMING

Time : Three Hours *[Maximum Marks : 60]*

Note :- Attempt all questions.

SECTION - A

1. Attempt all parts of the following : $8 \times 1 = 8$

- (a) What are the different classes of internet addresses?
- (b) Name five different web-browsers.
- (c) What are different primitive data types in 'Java'?
- (d) What is the difference between a constructor and a method?

[P. T. O.]

- (e) Why 'final' keyword is used in Java?
- (f) What is an exception?
- (g) Name different state of a thread?
- (h) Define an applet.

SECTION – B

2. Attempt any two parts of the following : $2 \times 6 = 12$

- (a) What are the different ways of connecting to internet? Describe each in brief.
- (b) Write a Java program to find the sum of odd numbers in the range of 1 to 100.
- (c) Write a java program to calculate the multiplication of two 3×3 matrices.
- (d) Write a java program that gets an input as a file name, if file exists, then delete otherwise show a message "file not found".

SECTION – C

Note :- Attempt all questions. Attempt any two parts from each questions. $5 \times 8 = 40$

3. (a) What do you understand by client-server model? Discuss.
- (b) What is internet? Explain the different factors we should consider before selecting an internet connection?
- (c) What is ISP? Discuss the functions of ISP.
4. (a) Why is Java known as platform independent languages?
- (b) Write a program that has a overloaded method area (). The first method should calculate area of circle, second to calculate area of triangle and third method to calculate the area of rectangle.
- (c) With an example, explain that how can be a function protect from overriding?
5. (a) Write a program to sort an array with elements {55, 84, 20, 82, 98} in descending order. Also print the sorted array.
- (b) What do you understand by interface? Explain, how an interface is implemented in Java?

- (c) What do you mean by multi-threading? Also describe the life cycle of a thread. Write a simple program to create a thread in Java.
6. (a) Write a program in Java to copy the contents of one text file to another.
- (b) What is an Applet? How can be an executable applet created? Explain with example.
- (c) Write a short note on layout manager.
