

BCA-502(N)

B. C. A. (Fifth Semester) EXAMINATION, Dec., 2019

(New Course)

Paper Second

JAVA PROGRAMMING AND DYNAMIC

WABPAGE DESIGN

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from all Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

Section—A

(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 3 marks.

1. (A) What do you mean by Bitwise Operators ? What types of Bitwise operators are available in Java ? Explain in short.
- (B) What is the difference between Actual argument and Formal argument ?

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- (C) What is the difference between an abstract class and an interface ?
- (D) What do you understand by events in Java ? Why are the events important ?
- (E) What are various lists used in HTML ? Describe in short.
- (F) What are servlets ? How are servlets different than simple Java application ?
- (G) What do you mean by Session tracking ? How is it performed and what are its benefits ?
- (H) What are various tag libraries ? Why are they used ?
- (I) Why the very first request for a JSP page experience a delay in response ? How this delay is removed ?

Section—B

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 12 marks.

2. What do you understand by threads ? What benefits do threads provide ? What are the different ways of creating them ? Also describe synchronization.
3. Differentiate between the following :
 - (a) Checked Exception and Unchecked Exception
 - (b) Error and Exception
 - (c) Throws and Throw
 - (d) Finally and Finalize()

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4. What are the main steps to make JDBC connectivity ?
Why statement is used in JDBC ? What are the different types of statement ?
5. Write a Java applet program to create national flag.
Also colour it appropriately.

Section—C

(Long Answer Type Questions)

Note : Attempt any two questions. Each question carries 12 marks.

6. Write a program in Java Servlet, which greets you by your name (first it asks your name and then greets you). <http://www.csjmuonline.com>
7. What are different methods used in Servlets ? Explain their usages.
8. Write a program in JSP to calculate the sum of numbers from 1 to 25.
9. (a) Explain in detail, how input and output are processed in JSP. 6
- (b) What are the advantages of using JSP over Servlets and vice-versa ? 6

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