

Roll No. 0802508

BCA-502(N)

**B. C. A. (Fifth Semester)
EXAMINATION, Nov./Dec., 2018**

(New Course)

Paper Second

**JAVA PROGRAMMING AND DYNAMIC
WEB PAGE 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.

- I. (A) What do you understand by Vector ? Differentiate it from ArrayList.
- (B) What is the difference between a break statement and a continue statement ?
- (C) Which method is used to specify container layout ? Write its syntax.

C-87

P. T. O.

[2]

BCA-502(N)

- (D) Explain MouseListener.
- (E) Describe any *one* exception related to JDBC. Also describe its cause and how to handle that ?
- (F) How do you make link to you e-Mail address in a HTML page ? Explain clearly.
- (G) What are custom tag libraries ? What purpose do they serve ?
- (H) What do you understand by session tracking in servlets ?
- (I) What are common tasks performed by Servlet Container ?

Section—B

(Long Answer Type Questions)

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

- 2. Explain synchronization in context to Java threads. Which is more preferred, synchronized block or synchronized method and why ?
- 3. Write a java program that counts the vowels, consonants and special characters in the inputted string by the user.
- 4. What do you understand by TCP/IP socket programming ? What are the key classes for it ? Explain the steps for creating a simple server program.

Section—C

(Long Answer Type Questions)

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

- 5. Explain in detail all *three* types of JSP elements.

[3]

- 6. What are the advantages of using Servlets over other server-side technologies ?
- 7. (i) How do you create frames ? What is a frameset ?
- (ii) How do you nest table within table in an HTML page ? Explain giving example.

BCA-502(N)

2,500