

No. of Printed Pages : 03

Roll No. ....

**F211**

**B.C.A. EXAMINATION, May 2019**

(Sixth Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA302B

E-BUSINESS

*Time : 3 Hours]*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

### Unit I

1. Discuss the software and hardware requirements for opening an online business in detail. 7  
8
2. What are various types of e-Commerce ? Explain in detail. 15

### Unit II

3. (a) With the help of a neat diagram explain EDI-enabled procurement process. 7  
(b) What are various issues of EDI implementation ? 8
4. Compare EDI with traditional systems. Also highlight the merits and demerits of EDI. 15

### Unit III

5. Discuss the methodology for BPR implementation in detail. 15

6. How BPR can be applied to an organization ? Explain in detail. 15

### Unit IV

7. What are the limitations of traditional payment system ? Explain. 15
8. Write short notes on the following :  
(a) Secure transaction  
(b) Emerging status of e-Commerce in India. 15

- (b) Write code for an applet that receives two numeric values as input from the user and then displays the sum of entered numeric values on the screen. 5
8. (a) Illustrate the concept of thread priorities. 5
- (b) Describe the Java Thread Model. Also write the advantages of threads. 10

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**F212**

**B.C.A. EXAMINATION, May 2019**

(Sixth Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA304B

JAVA PROGRAMMING

*Time : 3 Hours*

*[Maximum Marks : 75*

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

### Unit I

1. Describe the history of Java ? Also explain the concept of Byte code. 15
2. (a) What are arrays ? Write a program to search an element from an array of integers containing 10 elements. 10
- (b) What is method overloading ? Also write the significance of method overloading. 5

### Unit II

3. (a) What is Polymorphism ? Explain with suitable example. 5
- (b) How can you create your own package in Java ? Also write the significance of packages. 5
- (c) What is the concept of CLASSPATH ? Explain. 5

4. (a) What is the significance of 'final' keyword in Java ? 5
- (b) Briefly illustrate the concept of abstract class. 5
- (c) What is Inheritance ? Describe different types of inheritance with examples. 5

### Unit III

5. Illustrate the concept of interfaces in detail. Also explain, how the interfaces are different from abstract classes ? 15
6. (a) What are exceptions ? What are the different types of exceptions ? Also write how try-catch mechanism is different from method calling ? 10
- (b) Briefly describe the process of throwing exceptions. 5

### Unit IV

7. (a) Describe the life-cycle of applets in detail. 10

**Unit IV**

7. (a) Explain with suitable example the networking commands used in UNIX. 10  
(b) Write a note on wild card characters. 5
8. Write notes on the following :  
(a) DNS  
(b) Setting up of WWW servers under UNIX  
(c) Reserved words.  $3 \times 5 = 15$

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**F213**

**B.C.A. EXAMINATION, May 2019**

(Sixth Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA306B

SYSTEM ADMINISTRATION

*Time : 3 Hours*

*[Maximum Marks : 75*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

### Unit I

1. What do you mean by Operating System ?  
Explain various types of operating systems.

15

2. (a) With a block diagram explain Unix operating system organization and explain Kernel Shell Relationship.

10

- (b) What is the difference between Unix and Windows Operating System ?

5

### Unit II

3. (a) Explain curl, tail, grep, ps, env, netstate, yum and chmod command in unix with examples.

8

- (b) Explain the three modes of the Vi-Editor.

7

4. (a) What is a pipe in Unix ? When do you required namesless pipe ?

- (b) Write a shell script which displays names of directories in PATH in one line each.

- (c) What is difference between Message Queue and Pipes ?

3×5=15

### Unit III

5. (a) How the synchronization in the Kernel does take place ?

- (b) What are the functional activities of system administrator ?

- (c) How do we mount and unmount file system in UNIX ?

3×5=15

6. (a) Write the process of maintaining the security in UNIX.

- (b) Explain the process of setting up of remote communication in UNIX ?

- (c) Write the procedure of installing printer and peripheral devices on Unix.

3×5=15