

**Unit IV**

7. Describe the different stages in the life-cycle of an Applet. Distinguish between `init()` and `start()` methods. Also write how applets are different from other applications ? **15**
8. (a) What is the difference between suspending and stopping a thread ? **2**
- (b) What are the two methods by which we may stop threads ? **3**
- (c) What is the significance of the 'synchronized' keyword in multithreading ? **5**
- (d) Explain the concept of thread priorities in brief. **5**

**F-212**

**B.C.A. EXAMINATION, May 2018**

(Sixth Semester)

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

BCA304B

JAVA PROGRAMMING

*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. (a) Write a program to convert the given temperature in Fahrenheit to Degree Celsius. 5
- (b) List and explain the different categories of operators supported by Java. 5
- (c) What is a constructor ? What are its special properties ? Give suitable example in support of your answer. 5
2. (a) Briefly illustrate history of Java ? Also write how Java is important for the Internet ? 9
- (b) List and explain the various built-primitive data types available in Java. 6

**Unit II**

3. (a) What is an Abstract class ? Also write the significance of abstract classes. 3
- (b) What is the significance of 'final' keyword available in Java ? 2

- (c) What is Inheritance ? Describe different forms of inheritance with examples. 10
4. (a) How can you create your own package in Java ? Also write the advantages of packages. 7
- (b) Discuss the different levels of access protection available in Java. 8

**Unit III**

5. (a) Compare and contrast abstract classes and interface. 5
- (b) What is the significance of 'finally' clause ? 5
- (c) Give an example where interfaces can be used to support multiple inheritance. Write a Java program for the example. 5
6. What do you mean by Exception Handling ? List and explain the different types of exceptions. Also elaborate the advantages of exception handling with suitable example ? 15

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**F-211**

**B.C.A. EXAMINATION, Dec. 2018**

(Sixth Semester)

(B. Scheme) (Re-appear Only)

(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.

(3-10/6) M-F-211

P.T.O.

### Unit I

1. (a) What is B2E electronic commerce ?  
Explain. 7
- (b) What is intra-organizational electronic commerce ? And what is its potential benefits ? 8
2. Describe application of electronic coheren technologies in detail. 15

### Unit II

3. What is meant by business service architecture ? Compare the business service infrastructure requirements of traditional and electronic commerce. 15
4. What do you mean by transmission media ?  
What are various types of transmission media ?  
Explain. 15

### Unit III

5. On what metrics an online payment system is evaluated ? Explain in detail. 15

6. (a) Differentiate between pre-paid and post-paid payment systems.
- (b) What is micro payment system ? What are special considerations for designing a micro payment system ? 15

### Unit IV

7. Explain firewall security policies in detail. 15
8. Write short notes on the following : 15
  - (a) E-Vallet
  - (b) Limitations of traditional payment systems.

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**F-213**

**B. C. A. EXAMINATION, May 2018**

(Sixth Semester)

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

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. Define operating system. Explain its needs and services. 15
2. (a) Comparison between UNIX and windows. 8
- (b) Explain structure of UNIX Kernel. 7

### Unit II

3. Explain UNIX commands. 15
4. (a) Differentiate between inter-user and inter-machine communication. 6
- (b) Brief the following
  - (i) Process management commands 4
  - (ii) Shell commands. 5

### Unit III

5. Explain various functional activities of system administration. 15

6. Explain how to :
  - (a) Manage disk space. 5
  - (b) Maintain Security 5
  - (c) Mount and unmount file system. 5

### Unit IV

7. (a) Explain shell programming as a language. 7
- (b) Describe Wild card characters and how to execute a shell program. 8
8. Explain type of statements in shell programming and explain Special Shell Parameters. 15