

**F211**

**B.C.A. EXAMINATION, 2020**

(Sixth Semester)

(B Scheme)

(Main & Re-appear)

BCA

E-BUSINESS

BCA302B

*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) How can an existing business be promoted by internet ? Describe. 7  
(b) Describe regulator head aspects of E-Commerce. 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 the components of EDI system. 7  
(b) What are various benefits of EDI ? 8
4. What is the value added network ? How is it helpful in E-Commerce ? What are the salient features of value a value added network provider ? 8

### **Unit III**

5. Discuss the planning strategy of change to EC. **15**
6. How can BPR be applied to an organization ? Explain the various methodologies of BPR. **15**

### **Unit IV**

7. What are Secure Electronic transactions ? What are the requirements for making transactions electronically secure ? **15**
8. Write short notes on the following :
- (a) Limitations of Traditional Payment System
  - (b) Firewall configuration for making it secure. **15**

## F212

### B.C.A. EXAMINATION, 2020

(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. (a) List and explain the various primitive data types available in Java. **5**
- (b) What is a constructor ? What are its special properties ? **5**
- (c) What is Java Virtual Machine ? Illustrate. **5**
2. (a) Briefly illustrate history of Java ? **7**
- (b) Write a program to find smallest element from an array of integers containing 10 elements. **8**

## **Unit II**

3. (a) What is an abstract class ? Also write the significance of abstract classes. **5**  
(b) What is Inheritance ? Describe different types of inheritance with example. **10**
4. (a) How can you create your own package in Java ? Also write the advantages of packages. **6**  
(b) What do you understand by method overriding ? Explain. **6**  
(c) Discuss the concept of 'final' keyword. **3**

## **Unit III**

5. Describe the concept of interfaces. Also write an example where interfaces can be used to support multiple inheritance. **15**
6. What do you mean by Exception Handling ? List and explain the different type of exceptions. Also elaborate the advantages of exception handling with suitable examples. **15**

## **Unit IV**

7. What are applets ? Briefly describe the life-cycle of applets. Also write how applets are different from other applications ? **15**
8. (a) What are Threads ? Also write, how threads are useful ? **10**  
(b) Explain the concept of thread priorities in brief. **5**

## F213

### B.C.A. EXAMINATION, 2020

(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.

#### Unit I

1. Explain the following with advantages and disadvantages :

(a) Multiprogrammed batch systems

(b) Distributed systems

(c) Real time systems.

3×5=15

2. (a) Write the features of UNIX operating system.

7

(b) Give the directory structure of UNIX file system.

8

#### Unit II

3. (a) What are shell variables and shell variable aliases ? Explain with examples.

9

(b) Explain Ping, Telnet and Finger commands with suitable examples.

6

4. (a) What do you mean by command line arguments in shell script ? How these arguments are handled ? **6**
- (b) How will you add and delete a new user in Linux ? **4**
- (c) Write a shell program to print all the files that have read permission only. **5**

### **Unit III**

5. (a) Write a shell program to print the number of users that are logged in.
- (b) How can file system mounting be done in UNIX ?
- (c) What is process of recovering from system crash in UNIX operating system ? **3×5=15**
6. Write notes on the following :
- (a) Accounting of system usage and billing
- (b) Authentication process in UNIX
- (c) Managing disk space. **3×5=15**

### **Unit IV**

7. (a) What do you mean by Shell program ? How do you write and execute shell programs ? Explain using suitable example. Also explain the significance of shell programming. **6**
- (b) Explain with suitable example the networking commands used in UNIX. **9**
8. (a) What is a wildcard character ? Give two examples each to explain wildcards '\*' and '?'. **5**
- (b) Write notes on the following :
- (i) Setting up of DNS
- (ii) Special shell parameters. **2×5=10**