

**UNIT - I**

2. (a) What is E-Commerce ? What are the benefits of E-Commerce ? Explain.
- (b) Explain Scope of E-Commerce in detail. Also Explain the Future of E-Commerce in detail.
3. Explain the following in detail :
  - (a) Application of E- commerce in Direct Marketing and selling.
  - (b) Impact of E-commerce.

**UNIT - II**

4. (a) What do you mean by value chain in Electronic commerce ? Explain supply chain and strategic Business unit chains in detail.
- (b) Write detail note on communication channel Threats and server Threats in detail.
5. (a) What do you mean by security Threats in E-commerce ? Explain security policy and integrated security in detail.
- (b) Write detail note on Inter -organizational value chains and porter's value chain model in detail.

**UNIT - III**

6. What is electronic payment system ? Explain electronic wallets, smart card and credit card system in detail.

7. Explain the following in detail :

- (a) Protecting E-commerce assets
- (b) Protecting intellectual property
- (c) Insuring transaction integrity
- (d) Protecting client computers

**UNIT - IV**

8. (a) What is EDI ? Explain the Benefits of EDI in detail.
- (b) What do you mean by EDI standards and EDI Security ? Explain in detail.
9. What do you mean by Business to Business E-Commerce ? Explain inter-organizational trade cycle and credit transaction trade cycle in detail.

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**BCA 6th Semester  
Examination – November , 2018**

**INTRODUCTION TO .NET**

Paper : BCA-309

*Time : Three Hours ]*

*[ Maximum Marks : 80*

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

*Note : Attempt five questions in all by selecting one question from each unit. Question No. 1 is compulsory. All questions carry equal marks.*

1. (a) What is Common Type System ?  $2 \times 8 = 16$   
(b) What are sealed classes ?  
(c) What is function overriding ?  
(d) Why C# is more object-oriented ?  
(e) What is metadata in .NET ?  
(f) What are constructors in C# ?  
(g) What are delegates ?  
(h) What are interfaces in C# ?

### UNIT - I

2. How .NET technology differs from COM ? What is .NET framework ? What is the relationship between .NET framework and COM/COM+/DCOM ? Illustrate the importance of its building blocks through a diagram. 16
3. Explain the following :
- (a) Architecture of .NET platform 8
  - (b) Namespaces in .NET 8

### UNIT - II

4. (a) What is C# ? What are its characteristics ? Explain. 8
- (b) What are various data types supported by C# ? Illustrate. 8
5. Explain the following :
- (a) Boxing and Unboxing 8
  - (b) Class Libraries in .NET 8

### UNIT - III

6. What are different types of operators supported by C# ? Chart these operators, discuss their precedence and associativity through suitable examples. 16
7. Explain the following :
- (a) Operator overloading 8
  - (b) for and for each loops 8

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### UNIT - IV

8. What is exception handling in C# ? What are the major tasks involved in handling exceptions ? What are the exceptions that occur commonly in C# programs ? Answer the following : 16
- (i) Why is proper ordering of catch blocks necessary in C# ?
  - (ii) What happens when an exception is caused in an inner try block of a nested try block ?
  - (iii) How exception-handling mechanisms can be used for debugging a program ?
9. Explain the following :
- (a) Automatic memory management 8
  - (b) Abstract class and methods 8

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**BCA 6th Semester  
Examination – November , 2018**

**ARTIFICIAL INTELLIGENCE**

**Paper : BCA-308**

**Time : Three Hours ]**

**[ Maximum Marks : 80**

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

**Note :** Attempt *five* questions in all selecting at least *one* question from each unit. Question No. 1 is **compulsory**. All questions carry equal marks.

**1.** Explain the following in brief :

- (a) Application areas of AI
- (b) Problem space
- (c) Issues in the design of the search problem
- (d) Constraint satisfaction
- (e) Learning by taking advice
- (f) Syntactic processing
- (g) Representing instances
- (h) Uses of expert system

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**UNIT - I**

2. What is Artificial Intelligence ? Explain the nature and goals of AI in detail. Also explain AI techniques in detail.
3. Explain the following in detail :
  - (a) Hill Climbing
  - (b) Production system and its characteristics

**UNIT - II**

4. Explain the following in detail :
  - (a) Issues in knowledge representation
  - (b) Computable function and predicate
5. What do you mean by knowledge representation ? What are the characteristics of a knowledge representation system ? Explain how can inheritable knowledge be represented ? Also explain the various approaches used in knowledge representation.

**UNIT - III**

6. (a) What is natural language processing ? Also explain semantic processing in detail.  
(b) What is learning ? Explain rote learning and explanation based learning in detail.
7. Explain the following in detail :
  - (a) Learning in problem solving
  - (b) Discourse and pragmatic processing

**UNIT - IV**

8. What is knowledge ? Explain the components of knowledge base. Also explain the various stages of knowledge acquisition in detail.
9. What is an Expert system ? What are the different applications of expert systems ? Explain in detail the expert system shells.

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**BCA 6th Semester  
Examination – November , 2018**

**E-COMMERCE**

**Paper : BCA-306**

**Time : Three Hours ]**

**[ Maximum Marks : 80**

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

**Note :** Attempt *five* questions in all. Question No. 1 will be *compulsory*. In addition to compulsory question, student will have to attempt *four* more questions selecting *one* question from each Unit.

- 1.** Explain the following :
- (a) Traditional Commerce vs Electronic Commerce
  - (b) Transaction integrity
  - (c) E-Commerce in Industry
  - (d) Change Card
  - (e) Internet
  - (f) Clients threats
  - (g) EDI agreement
  - (h) Electronic market

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