

**BC-3878**

**BCA (Semester-VI) Examination-2018**

**E-Commerce**

*Time: Three Hours*

*Maximum Marks: 75*

**Note: Attempt questions from all the sections.**

**Section-A**

**(Short-Answer Type Questions)**

**Note: Attempt any ten questions. Each question carries  
3 marks. (3x10=30)**

1. Define E-commerce. Also give some example of E-commerce.
2. What is Internet commerce?
3. Explain briefly Electronic Payment Procedure.
4. What is System Assurance in E-commerce?

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5. What is PDI Envelop for messages?
6. What is Internet Deployment? 0
7. What are Managerial Issues? Explain with example in Internet & extranet?
8. What do you understand by legal incidents in public policy?
9. What is use of Internet Protocols in e-commerce?
10. What are the things that impress buyers?
11. Discuss the role of multimedia in development of E-commerce. 0
12. Give some examples of C2C E-commerce.
13. What do you understand by Just in Time Delivery?
14. Explain how SSL protocol is used for secure transaction.

15. Define the followings –

- (i) Business Environment.
- (ii) The Nuts & Bolts.

#### Section-B

#### (Long-Answer Type Questions)

Note: Attempt any three questions. Each question carries 15 marks. (15x3=45)

1. Explain in detail Porter's Value Chain Model?
2. Define in detail about internet security. Also explain public key encryption techniques.
3. Write a note for the following –
  - (i) SET
  - (ii) Intellectual Property.

4. Explain the structure of Extranets its products & services.

5. What are the security schemes in Electronic payment systems? Explain with real life example.

6. (a) Explain the Infrastructure of E-commerce. (10)

(b) Write your views about Consumer & Seller Protection in E-commerce. (5)

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**BCA (Semester-VI) Examination - 2018**  
**KNOWLEDGE MANAGEMENT**

Time - 3 hours

Maximum marks : 75

Note : Attempt questions from all sections.

**SECTION - A**

(Short answer type questions)

Note : Attempt any ten questions. Each question carries equal marks. (3 X 10 = 30)

1. Explain the role of internet, intranet and extranet in building group decision support system
2. Differentiate between data warehousing and OLAP
3. How does knowledge flow in an organization?
4. How does groupware helps in knowledge sharing and dissemination?
5. What is business intelligence? Name some business intelligence tools.
6. Differentiate between data warehousing and business intelligence
7. What is data warehouse? Why we need them.
8. What is data cleaning? How can we do data cleaning?
9. Differentiate among data, information and knowledge.
10. What is critical intelligence
11. What is groupware?
12. What is e-commerce and its uses?
13. Explain various methods of data collection
14. What is explicit knowledge
15. What are the hardware and software requirements to build decision support system



**SECTION - B**  
(Long answer type questions)

Note : Attempt any three questions. Each question carries equal marks (3 x 15 = 45)

1. Explain the process of knowledge management i.e. knowledge generation, storage and sharing. What are the benefits of knowledge management?
2. How are groupware technologies, data warehouse, data mining and artificial intelligence related to knowledge management? Suggest the knowledge management initiatives for universities.
3. "Organisation must focus on application of knowledge management to gain success". Explain.
4. Draw and explain data warehouse architecture of banking sector.
5. Explain the process of knowledge discovery in databases. How data coding helps in data mining?

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Duration: 3 Hours

**Note: Paper contains two sections. Attempt all sections.****Section A****Attempt any TEN Questions. Each question carries THREE marks.**

1. Discuss any two passive attacks.
2. Discuss the mechanism by which we avoid masquerade.
3. What is data integrity? What kind of service is required to protect data integrity?
4. Briefly define Play Fair cipher.
5. What is role of Key Distribution Center? Explain.
6. What characteristics are needed in a secure hash function?
7. What requirements should a digital signature scheme satisfy?
8. In the context of Kerberos, what is a realm?
9. What is the utility of a detached signature?
10. What services are provided by IPsec?
11. List and briefly define the parameters that define an SSL session connection.
12. What are two common techniques used to protect a password file?
13. List four techniques used by firewalls to control access and enforce a security policy.
14. Define any two techniques used to avoid guessable passwords.
15. Explain malware.

**Section B**

**Attempt any THREE questions. Each question carries FIFTEEN marks.**

1. Explain the following:

- a. Transposition Cipher
- ~~b. Denial of Service~~
- c. Confusion and Diffusion
- d. Euler Totient Function
- e. Public Key Certificate

~~2. Explain Kerberos V 4 in detail.~~

3. Write short notes on the following:

- ~~a. S-MIME~~
- ~~b. Security Association.~~

4. ~~a. Discuss the threats. / attacks can be prevented by applying IP security.~~

~~b. What is the difference between transport mode with tunnel mode?~~

5. Explain the following:

- a. Message Authentication Code
- b. Diffie -Hellman Key Exchange

6. ~~a. Explain the techniques of intrusion detection.~~

~~b. What is hacking? Explain term ethical hacking.~~

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BCA VI Sem. Examination-2017  
Computer System Analysis Design and Implementation

Time :3 Hour

MM:75

Section: A

Note attempt any ten question each carries three marks 3X10=30

1. Who should be validating a system? Why?
2. What is the drawback of DFD?
3. What do you understand by quality assurance?
4. What is behavioral feasibility?
5. What is the significance of data dictionary?
6. List characteristics of a good interface.
7. Explain the different ways in which an analyst gathers requirements from the customer.
8. Draw a labeled DFD of a Library Automation System.
9. Explain the conceptual data modeling with entity relationship model.
10. How will you design databases for an application? Explain with any one example.
11. What is the main difference between analysis and design?
12. What is meant by the principle of "information hiding"? What is an advantage of using this principle?
13. List and illustrate the primary uses and elements of a decision table.
14. Why is code review considered a more efficient testing for bug reduction as compared to testing?
15. What are major drawbacks of file system?

Section: B

Note: Attempt any three question each carries 15 marks 3X15=45

1. Explain the cost benefits analysis with example.
2. What is prototyping? Briefly explain the benefits of prototyping in software development.
3. (a) What are the goals of input/output design?  
(b) What are the characteristics of data entry? Briefly explain how data entry requirements influence form design.
4. What is the significance of CASE tools in system analysis and design? Explain different CASE tools used in system analysis and design.
5. What do you mean by object modeling technology? Explain with example.
6. Explain role of JAD in system development.

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**B. C. A. (Sixth Semester)**

**EXAMINATION, 2019**

**COMPUTER NETWORK SECURITY**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :** Attempt questions from both Sections as directed.

**Section—A**

**(Short Answer Type Questions)**

**Note :** Attempt any *ten* questions. Each question carries 3 marks.  $10 \times 3 = 30$

1. What is Computer Network Securing ? Explain its different goals.
2. Explain Play Fair Cipher and Autokey Cipher with example.

**(A-36) P. T. O.**

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3. Give the difference between Cryptography and Steganography with examples.
4. What is S/MIME ?
5. What is Message Authentication Code ?
6. Explain the difference between Kerberos version 4 and 5.
7. Explain any *three* components of PGP.
8. Distinguish between Transport mode and Tunnel mode of IPSec.
9. What is Digital Signature ?
10. What is the difference between SSL connection and an SSL session ?
11. Explain any *three* salient features of SSL.
12. Give any *three* differences between TLS and SSLv3 protocols.
13. List and define three classes of Intruders.
14. Give differences among viruses, worms and malware.
15. Using Fermat's theorem, find  $3^{201} \bmod 11$ .

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## Section—B

## (Long Answer Type Questions)

**Note :** Attempt any *three* questions. Each question carries 15 marks.  $3 \times 15 = 45$

1. What do you understand by Network Security attack ? Explain the different types of security attack with suitable example.
2. What is Kerberos ? Explain the different server used in kerberos with suitable diagram. Also explain the Revocation of X.509 certificates.
3. What is PGP ? Explain characteristics of PGP. Also explain four services of PGP with diagram.
4. Perform encryption and decryption using the RSA algorithm for the following :
  - (i)  $P = 3, q = 11, e = 7, M = 5$
  - (ii)  $P = 5, q = 11, e = 3, M = 9$
  - (iii)  $P = 7, q = 11, e = 17, M = 8$

(A-36)



5. What is Firewall ? List the types of Firewalls and explain. Draw a schematic diagram of a packet filtering router used as a firewalls.

6. (a) Explain Euclidean algorithm and solve the following using above algorithm :

(i) Determine gcd (1970, 1066).

(ii) Determine gcd (24140, 16762).

(b) What are the six components of Public Key Infrastructure (PKI) ?

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**BCA (Semester-VI) Exam.-2017**  
**COMPUTER NETWORK SECURITY**

*Time : Three Hours*  
*Maximum Marks : 75*

**Note : Attempt questions from all sections.**

**SECTION - A**

(Short-answer Type Questions)

**Note :** Attempt **any Ten** questions. Each question carries 3 marks.  $10 \times 3 = 30$

1. Differentiate attack with threat with example.
2. Discuss 'Denial of Service' attack with example.
3. How encryption is useful in authentication?
4. What are the two basic functions used in encryption algorithm?
5. Explain Shanon's theory of Confusion and Diffusion.

**[P. T. O.]**



6. What kinds of attacks are addressed by message authentication code?
7. What is the difference between direct and arbitrated digital signature.
8. What are three threats associated with user authentication over Network or Internet?
9. How does PGP use the concept of trust?
10. Give examples of applications of IPSec.
11. List and briefly define any two parameters that define an SSL session state.
12. List and briefly define three classes of intruders.
13. List and briefly explain three design goals for a firewall.
14. What is the concept and techniques of password guessing?
15. What is virus? Explain with example?

**SECTION - B**

(Long Answer type questions)

Note : Attempt **any Three** questions. Each question carries 15 marks. 15x3=45

1. Explain the following -
  - (a) Traffic Padding
  - (b) Poly Alphabetic Cipher
  - (c) Avalanche Effect
  - (d) Euler's Theorem
  - (e) Key Exchange
2. Explain Kerberos V5 in detail.
3. Write short notes on the following-
  - (a) SNMP
  - (b) Configuration Management
  - (c) Honey pot
4. (a) What are the five principal services provided by PGP.  
(b) What is the utility of detached signature?

[P. T. O.]

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5. Explain the following-

(a) RSA algorithm

(b) Hash Function

6. (a) Discuss the techniques used by firewall to access control.

(b) What are two common techniques used to protect a password file?

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**BCA (Semester-VI) Exam.-2016**

**Computer Network Security**

*Time : Three Hours*

*Maximum Marks : 75*

**Note : Attempt questions from all sections.**

**SECTION - A**

(Short-answer Type Questions)

**Note :** Attempt **any ten** questions. Each question carries 3 marks.  $10 \times 3 = 30$

1. Define attack? Also State its types.
2. What do you understand by Security services?  
Explain any one service.
3. What is Cryptanalysis? Also State two most common approaches for Cryptanalysis.

**[P. T. O.]**

4. What is kerberos? Explain its use.
5. What are the principal services provided by PGP?
6. What services are provided by IP Security?
7. Explain Oakley Key Determination protocol.
8. What protocols comprise secure socket layers?
9. What do you understand by SNPVZ?
10. List & briefly define three classes of intruders?
11. What is a honeypot?
12. What is design principles of firewall? Also state its type.
13. What are the threats related to viruses? Explain briefly.
14. What do you understand by the model of internetwork security?

15. Define Access control in context with network security?

### SECTION - B

(Long Answer type questions)

Note : Attempt **any 3** questions. Each question carries 15 marks. (15x3=45)

1. Explain the following terms.
  - a) Security Mechanisms
  - b) Public Key Encryption
2.
  - a) Discuss the various measures to prevent the unauthentic access.
  - b) Explain X-509 Authentication service.
3.
  - a) What are three broad categories of applications of public key cryptosystem.
  - b) Briefly explain the techniques used by firewalls to control access and enforce security policy.

[P. T. O.]

4. a) What is the role of encryption in the operation of a virus?  
b) List and briefly define the principal categories of Secure electronic, Transaction?
5. a) Describe the properties of digital signature.  
b) Describe with the help of diagrams the conventional model of Encryption & Decryption.

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**BCA (Semester-VI) Exam.-2015**

**Computer Network Security**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :- Attempt questions from all the sections.**

**SECTION - A**

(Short Answer Type Questions)

**Note :** Attempt **any ten** questions. Each question carries 3 marks. 10x3=30

1. Explain any three types of security attacks.
2. Discuss any two security services.
3. Explain the concept of digital signature.
4. What is directory authentication service?
5. What problem was Kerberos designed to address?
6. What is replay attack?

**[P. T. O.]**

7. What is the concept authentication header? Explain.
8. Discuss any two techniques of key management.
9. Explain secured socket layer.
10. What is electronic transaction? Explain.
11. What is the concept of dual signature? Explain.
12. What services are provided by IPSec?
13. Explain any two types of intruders.
14. What is honeypot? Define.
15. Define any two techniques used to avoid guessable passwords.

### SECTION - B

(Long Answer Type Questions)

**Note :** Attempt any three questions. Each question carries 15 marks.  $15 \times 3 = 45$

1. Explain
  - (a) Cipher Text
  - (b) Cryptanalysis

- (c) Authentication
  - (d) Public key and private key
  - (e) Denial of service
2. (a) List three approaches to secure user authentication in a distributed environment.  
(b) What is the purpose of the X.509 standard?
3. Write short notes on the following :
  - (a) ESP
  - (b) Security Association
  - (c) Transport Mode
4. (a) What protocol comprise SSL?  
(b) What is the difference between an SSL connection and an SSL session?
5. Explain the architecture of SMMP VII.
6. (a) What is a digital immune system?  
(b) What are two common techniques used to protect a password file?

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**B. C. A. (Sixth Semester)**

**EXAMINATION, 2019**

**COMPUTER SYSTEM ANALYSIS DESIGN  
AND IMPLEMENTATION**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :** Attempt questions from both Sections as directed.

**Section—A**

**(Short Answer Type Questions)**

**Note :** Attempt any *ten* questions. Each question carries 3 marks.

$10 \times 3 = 30$

1. Differentiate open system with closed system.

**(A-38) P. T. O.**



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2. What is a decision table ? Explain.
3. What is meant by feasibility study ?
4. Explain the concept of prototyping.
5. Define JAD approach.
6. List out the various phases of SDLC.
7. What is the difference between verification and validation ?
8. Explain any *four* common analysis tools.
9. Write about Capability Maturity Model (CMM).
10. What are the objectives of software design ?
11. Draw DFD for the employee information system. Make your own assumptions about the system.
12. What are on-site observations ?
13. Differentiate between TOP-DOWN and DOWN-TOP Design.
14. How to measure the quality and productivity of software ?
15. Explain different CASE tools.

#### Section—B

#### (Long Answer Type Questions)

**Note :** Attempt any *three* questions. Each question carries 15 marks.  $3 \times 15 = 45$

1. Discuss various cost estimation techniques. What cost elements are considered in

(A-38)

[3]

- cost/benefit analysis ? Which element do you think is the most difficult to estimate ?
2. Explain the various fact-finding techniques used in system study.
3. What do you mean by structured analysis ? Explain it with the help of tools.
4. What is a user-interface design of a system ? Explain the various types of user-interfaces for a system.
5. What is input and output design ? Explain, why proper form designing is essential for a system ? Briefly discuss the criteria used for form design.
6. Define the term quality assurance. Discuss its importance in system design. Also describe the factors that affect the quality of a system.

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**BCA (Semester-VI) Examination-2017**

# **Computer System Analysis Design and Implementation**

*Time : Three Hours*

*Maximum Marks : 75*

**Note : Attempt questions from all sections.**

## **SECTION - A**

*(Short-answer Type Questions)*

**Note :** Attempt **any ten** questions. Each question carries 3 marks. 10x3=30

1. What is document configuration? Why is it needed?
2. What are the characteristics of a good test case?
3. Differentiate between technical feasibility and operational feasibility of a project.

**[P. T. O.]**

4. List any two common errors that are made while drawing dataflow diagram.
5. Why do we need to design software architecture?
6. What is purpose of system testing?
7. What is weak entity? Give an example.
8. What is system? Explain characteristics and types of system.
9. What are different methodologies of system design?
10. List and explain considerations for the input design?
11. What is meant by analyst/user interface?
12. What is decision tree?
13. What is the significance of data dictionary?
14. What is post implementation?
15. Draw a labeled DFD of a Library Automation System.

**SECTION - B**

(Long Answer type questions)

Note : Attempt **any three** questions. Each question carries 15 marks. 15x3=45

1. (a) Show how the following relationships represented in E-R model with suitable examples.  
(i) Ont-to-one                      (ii) One-to-many  
(iii) Many-to-many  
(b) Summarize the advantages of using CASE tools in systems analysis and design
2. Explain system development life cycle (SDLC) in detail. How cost/benefit analysis plays an important role in SDLC?
3. Explain various types of feasibility studies that the analyst should consider.
4. Write short notes on the following :  
(a) System requirement specification  
(b) Data dictionaries

[P. T. O.]

5. What are the security issues in a computer system? How does an organization prevent its database from security concerns? Illustrate with an example.
6. What is prototyping? Briefly explain the benefits of prototyping in software development.

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**BCA VI Sem. Examination-2016**  
**Computer System Analysis**  
**Design and Implementation**

*Time : 3 Hours*

*Maximum Marks : 75*

**Note: Attempt questions from all sections.**

**SECTION - A**

(Short-answer Type Questions)

**Note :** Attempt **any ten** questions. Each question carries 3 marks.  $3 \times 10 = 30$

1. What are the components of system?
2. What do you mean by integration?
3. Differentiate between open and close system.
4. Define Data Dictionary.
5. What do you mean by structure English?
6. Explain behavioral feasibility.
7. Differentiate between tenable & untenable cost.

**[P. T. O.]**

8. Explain Database Design.
9. Draw DFD of banking system.
10. Explain events and state.
11. Write the short note on software package evaluation.
12. What do you mean by project scheduling?
13. Explain JAD in detail
14. What do you mean by interdependence of system?
15. Explain logical design of system.

### SECTION - B

(Long-answer Type Questions)

Note : Attempt **any three** questions. Each question carries 15 marks. 3×15=45

1. Describe the system Development Life Cycle.
2. What do you understand by 'CASE TOOLS'?  
Explain the following tools.  
(i) Diagram Tools.

- (ii) Configuration Management Tools
- (iii) Prototyping Tool
- (iv) Quality Assurance Tool
3. Define the following :
  - (i) ISO and capability maturity model for organizational growth.
  - (ii) Measurement of software quality and Productivity.
4. Write the short note on the following :
  - (i) Software constructor
  - (ii) Object oriented Methodology for application development.
5. Explain the following term -
  - (i) Interview & Presentation skills.
  - (ii) Group dynamics
6. Define the following :
  - (i) Categories of software package
  - (ii) Software quality matrix

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**BCA (Semester-VI) Examination-2015**

**Information System Analysis  
Design and Implementation**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :-** Attempt questions from all the sections.

**SECTION - A**

**(Short Answer Type Questions)**

**Note :** Attempt any ten questions. Each question

carry 3 marks

$3 \times 10 = 30$

1. Describe the system. Also write the characteristics of system.
2. Differentiate physical and logical design.
3. List the skills of good system analyst.

**[P. T. O.]**



4. Define Feasibility of a system.
5. What are the managerial issues in software project.
6. Explain prototyping.
7. What is the need of CASE tools in the Analysis, design and implementation of information system?
8. Give the difference between functional and object oriented design.
9. What is documentation?
10. What is the work of structured english?
11. Define JAD.

12. Explain open and close system with example.
13. Define risk analysis.
14. Design a DFD for college management system for maintaining record of students.
15. What are the good communication skills?

### SECTION - B

(Long-answer Type Questions)

**Note :** Attempt any three questions. Each question carries 15 marks.  $15 \times 3 = 45$

1. Explain the role of ISO in an organization.
2. Define SDLC, Explain in detail.
3. What is database design? What are the quality metrices for datbase design?

[P. T. O.]



4. Write the short note on the following :

i. Project planning

ii. Prototyping

iii. Object modelling

5. Define ERD, Also explain its all symbols.

6. Define OMT. Also explain all models used in OMT.

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**BC-3878**

**B. C. A. (Sixth Semester)**

**EXAMINATION, 2019**

**E-COMMERCE**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :** Attempt questions from both Sections as directed.

**Section—A**

**(Short Answer Type Questions)**

**Note :** Attempt any *ten* questions. Each question carries 3 marks.  $10 \times 3 = 30$

- ~~1.~~ What is e-Commerce ? Explain.
2. What is the elements of e-Commerce ?
- ~~3.~~ What is EDI ? Explain.
- ~~4.~~ Explain advantages of e-Commerce system.

**(A-38) P. T. O.**

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- ~~5~~ Write a note on the future of e-Commerce.
6. Explain which IT-technologies are used in e-Commerce site development.
- ~~7~~ What is procurement management ? Explain.
- ~~8~~ What is electronic marketing ? Explain.
- ~~9~~ Explain internet and its usages in e-Commerce.
- ~~10~~ Give some examples of C2C e-Commerce.
11. Write the full form of HTTP, URL, DWS and FTP.
- ~~12~~ What do you understand by digital signature ?
- ~~13~~ What is firewall ? Explain.
- ~~14~~ Explain Encryption.
- ~~15~~ Explain Electronic Payment System.

#### Section—B

#### (Long Answer Type Questions)

Note : Attempt any *three* questions. Each question carries 15 marks.  $3 \times 15 = 45$

- ~~1~~ Compare EDI and the Internet ? How does EDI differ from Traditional Purchasing methods ?

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[3]

- ~~2~~ Discuss electronic payment system with their advantages and disadvantages.
3. Explain client/server model in detail.
4. Explain the legal aspects of e-Commerce.
- ~~5~~ Write short notes on the following :
  - (a) Internet security
  - (b) Porter's value chain model
  - (c) Business models of extranet

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(A-38)



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BCA (VI-Semester) Examination-2017

## E-Commerce

Time : Three Hours

Maximum Marks : 75

Note : Attempt questions from all sections.

### SECTION - A

(Short-answer Type Questions)

Note : Attempt **any ten** questions. Each question carries 3 marks.  $10 \times 3 = 30$

1. What is an E-Commerce?
2. Differentiate between B2B and B2C.
3. Define EDI.
4. What is trade cycle? Explain various phases of trade cycle.
5. What are the roles and types of firewalls for intranets and extranets?
6. What do you understand by DNS?

[P. T. O.]

7. What is tunneling? Explain its use in VPN.
8. What is SET?
9. Discuss the concept of e-cash and e-cheques.
10. Explain digital signature and also explain how does it works?
11. What is search Engine? Explain its use in online marketing and promotion.
12. Describe EFT and its relationship with debit cards.
13. Define intellectual property.
14. Define Cookies.
15. List the key client/server protocols for the internet

### SECTION - B

(Long Answer type questions)

Note : Attempt **any three** questions. Each question carries 15 marks. 15x3=45

1. Discuss the role of e-commerce in business, service, learning and community.

2. Define EDI with its components and features. Explain two data standards used in EDI and different types of costs involved in EDI.
3. Discuss the role of social media in E-commerce industry.
4. Explain various types of risks associated with electronic payment system. Discuss in detail.
5. How can you protect your E-Commerce systems? Explain different types of threats to e-Commerce systems. Also explain some common e-commerce security tools.
6. Explain the various design principles used in developing e-commerce websites. Explain various website design tips that a developer should consider during the development of e-commerce websites.

# **BC - 3878**

**BCA VI Semester Examination-2016**

## **E. Commerce**

*Time : 3 Hours*

*Maximum Marks : 75*

**Note: Attempt questions from all sections.**

### **SECTION - A**

**(Short-answer Type Questions)**

**Note :** Attempt **any ten** questions. Each question carries 3 marks. **3×10=30**

1. Define E- Commerce.
2. Draw a framework of Electronic Commerce.
3. What is B2C? Discuss its activities.
4. What is e-marketing?
5. What is the role of a firewall?
6. List the functional requirements of selling on the web.
7. How do private and public key encryption work?

**[P. T. O.]**

8. List the major legal issues of e-commerce.
9. Describe biometric controls.
10. Describe the security schemes adopted in SSL and SET.
11. Define Digital signature and Digital Envelope.
12. How do the architectures of the internet, intranet and extranet differ from one another?
13. Define EDI.
14. What is Internet Indecency? Explain.
15. Define how one can protect one self against cookies.

### SECTION - B

(Long-answer Type Questions)

Note : Attempt **any three** questions. Each question carries 15 marks.  $3 \times 15 = 45$

1. What is supply chain? Explain porter's value chain model.

2. How do log files indicate who has visited a site and what they were looking at? In what ways do you think the log files at a website violate your privacy? Explain.
3. Define Ethics. What are the four categories of Ethics as they apply to IT and EC?
4. Discuss the four security requirements for safe electronic payments. Also describe the pros and cons of secret key encryption and public key encryption and their complementary use.
5. List the Business models of B2B Electronic Commerce. Describe the relationship between B2B EC with supply chain management, procurement management, electronic marketing, internet and extranet.
6. What is SET? Explain different types of authentication techniques, process and methodologies for authentication of an electronic banking or Service.



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**BCA (Semester-VI) Exam.-2015**

**E-Commerce**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :- Attempt questions from all the sections.**

**SECTION - A**

(Short Answer Type Questions)

**Note :** Attempt **any ten** questions. Each question carries 3 marks.  $10 \times 3 = 30$

1. Write the future scope of electronic markets.
2. Differentiate between e-commerce & e-business.
3. Explain web application architecture.
4. Give the differences among Internet, Intranet & Extranet.
5. "The social web provides entirely new ways to deal with consumers." Explain.

**[P. T. O.]**



6. How HTTP works? Explain.
7. Which protocol is used to send files & e-mails? Explain it.
8. What are the security measures to be considered for e-commerce system?
9. Discuss the prospect of electronic payment system.
10. Explain EAN coding system for EDI.
11. What do you mean by B2B Electronic commerce? Explain.
12. Describe various security schemes in electronic payment system.
13. Discuss E-governance in detail.
14. Explain the role & Support of e-commerce in jobs & employment sites.
15. What is Firewall? State the functions of firewall in e-commerce.

**SECTION - B**

(Long Answer Type Questions)

**Note :** Attempt **any three** questions. Each question carries 15 marks. 3×15=45

1. Explain porter's value chain model in detail with all functions of the model.
2. What is E-commerce? Explain its components with example. Also discuss business models with suitable example.
3. What do you understand by e-payment system? Also explain the modes of transactions with example.
4. Write short note on :
  - (a) EDI
  - (b) RSA
  - (c) TCP/IP
  - (d) Copyright
  - (e) IPR

[P. T. O.]

5. Describe the complete life cycle for the development of online-e-commerce system using any of the existing e-commerce system.
6. Explain the following terms :
  - (a) Internet security
  - (b) Client / server technology
  - (c) Internet protocols

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**B. C. A. (Sixth Semester)**

**EXAMINATION, 2019**

**KNOWLEDGE MANAGEMENT**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :** Attempt questions from both Sections as directed.

**Section—A**

**(Short Answer Type Questions)**

**Note :** Attempt any *ten* questions. Each question carries 3 marks.  $10 \times 3 = 30$

1. Briefly explain the characteristics of Business Decision system.
2. Give the *three* fundamental components of Decision support system.

**(A-43) P. T. O.**

[ 2 ]

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3. How groupware technology is better than traditional techniques ?
4. Why executive support system is also known as specialized form of decision support system ?
5. Give a relation between a Business Expert system and Artificial intelligence.
6. Give the key features of Data Warehouse.
7. Define knowledge discovery. Also give example.
8. Briefly explain the data mining of advance databases.
9. Explain the Spatial Data Analysis.
10. What do you understand by forecasting in knowledge management ?
11. What is the role of clearing in knowledge management ?

(A-43)

[ 3 ]

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12. Give the application of knowledge management.
13. Briefly explain the elements which are crucial for the performance of OLTP system.
14. Briefly explain the types of Decision support system.
15. What are the major issues in Data mining ?

#### Section—B

#### (Long Answer Type Questions)

**Note :** Attempt any *three* questions. Each question carries 15 marks.  $3 \times 15 = 45$

1. What are Business Intelligence System ? Explain in detail its different components. Also give the application of Business Intelligence system.
2. Explain in detail with appropriate diagram the architecture of Data Warehouse.

(A-43) P. T. O.



- ~~3.~~ Explain in detail about the different data mining techniques available. Also compare them to find which is the best technique for data mining.
4. Explain the complete structure of knowledge management system.
5. Write short notes on the following :
  - (i) Artificial Intelligence
  - (ii) Data Cubes

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## BCA (SEMESTER-VI) EXAM.-2016

### Knowledge Management

*Time : Three Hours*

*Maximum Marks : 75*

**Note : Attempt questions from all sections.**

### SECTION - A

(Short-answer Type Questions)

Note : Attempt **any ten** questions. Each question carries 3 marks.  $3 \times 10 = 30$

1. Define the data warehouse.
2. What is Warehouse scheme? Explain in brief .
3. Explain the data warehouse architecture with suitable diagram.
4. What is Metadata? Explain the types of Meta data?

**[P. T. O.]**

5. What is Data Mining? How data mining is different from KDD?
6. Discuss the application of data mining in banking industry.
7. How can you link data mining with a DBMS ?
8. Explain the different steps of KDD (Knowledge Discovery in Database).
9. What is a knowledge? Explain the importance of knowledge management.
10. What is a Spatial Data Mining? Explain in brief.
11. Explain in brief the limitations of data mining.
12. What is a design support system? Explain.
13. Explain backend process of data warehousing
14. What is a Learning? Differentiate between supervised and unsupervised learning.
15. What is a Business intelligence? How data mining can be helpful in Business intelligence.

### SECTION - B

(Long Answer type questions)

Note : Attempt **any three** questions. Each question carries 15 marks. (15x3=45)

1. What is OLAP? Explain the different OLAP operations with example.
2. Explain the difference data mining technique.
3. What is an Expert system?. Explain the different components of a expert system
4. Explain the different methods of knowledge management system.
5. What is clustering? What are the different clustering techniques?
6. Explain the following
  - (a) Differentiate between ROLAP and MOLAP.
  - (b) Data Cube
  - (c) Web mining

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**BCA (Semester-VI) Exam.-2015**

**Knowledge Management**

*Time : Three Hours*

*Maximum Marks : 75*

**Note :- Attempt questions from all the sections.**

**SECTION - A**

**(Short Answer Type Questions)**

**Note :** Attempt any ten questions. Each question  
carry 3 marks.  $3 \times 10 = 30$

1. What are the general features of an expert system?
2. What are the characteristics of OLTP?
3. Explain the different type of information system.

**[P. T. O.]**

4. What is the difference between procedural and non-procedural DML?
5. How is the Dataware house is different from database.
6. Explain the components of GDSS (Group decision support system).
7. What is Data Mart?
8. Explain the importance of data cleaning.
9. Explain TACIT and EXPLICIT Knowledge.
10. Differentiate classification and Prediction.
11. Explain knowledge dissemination.
12. Explain Cognitive Science and Robotics.

13. Differentiate OLAP and OLTP.
14. Explain Data Cube.
15. What is Multimedia Mining?

### SECTION - B

(Long-answer Type Questions)

**Note :** Attempt any three questions. Each question carries 15 marks.  $15 \times 3 = 45$

1. What are the elements of knowledge management?
2. What is data Mining? Explain the Application of data mining.
3. Explain the Database system Architecture with diagram.

[P. T. O.]

4. Explain Expert system, its components and application of expert system.
5. Describe the architecture of dataware house with block diagram.
6. Explain the Pillars of knowledge management.

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