

Printed Pages:02

Paper Id:

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Sub Code: NCS-068

Roll No.

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B. Tech.
(SEM. VI) EVEN SEMESTER THEORY EXAMINATION 2017-18
E-COMMERCE

Time: 3 Hours**Total Marks: 100**

Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. 2 x 10 = 20

- a. What is E-commerce?
- b. Differentiate E-commerce and E-business.
- c. What is VRML?
- d. What is virtual Internet payment system?
- e. Give the uses of smart cards.
- f. What is EDI envelope for message? Explain
- g. What is the need of collaborative computing?
- h. List out the salient features of ATM.
- i. How proxy server is used in the network?
- j. What do you mean by cryptography, encryption and decryption?

SECTION B

2. Attempt any three of the following: 10 x 3 = 30

- a. Define E-commerce and various issues related to E-commerce. Compare E-commerce over traditional business and draw E-commerce architecture.
- b. Write the objectives, benefits and application of wireless application protocol (WAP).
- c. What is the importance of web security? Discuss the issues related to web security.
- d. Describe the role of cryptography in E-commerce. Differentiate between symmetric and asymmetric encryption with a suitable example.
- e. What is the low encryption attack on the RSA algorithm?

SECTION C

3. Attempt any one part of the following: 10 x 1 = 10

- (a) Explain Electronic payment Systems and state the advantages and disadvantages in EPS.
- (b) Distinguish between internet and extranet. Why a network infrastructure is required for a successful E-commerce application?

4. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Explain mobile commerce and its framework.
- (b) What is the communication protocol used by internet? What is the advantage of using such a common standard protocol to interconnect computers?

5. Attempt any *one* part of the following: 10 x 1 = 10

- (a) What is digital signature? How is an e-document signed by a sender and sent to a receiver?
- (b) What do you understand by VPN? How it maintain the confidentiality of resources from the existing physical network to a selected group of nodes within the same network?

6. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Discuss the role of firewall, importance and factors considered in firewall design.
- (b) Write short notes on following-
 - i. Transaction Security
 - ii. Network Security

7. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Explain secure electronic transaction (SET). What is the need for SET? What are the features does SET specify?
- (b) Explain the following-
 - i. E-commerce Law
 - ii. Smart card and E-checks

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Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION-A

(10×2=20)

1 Explain the following :

- a) Wireless Application Protocol
- b) Anonymous/auditable transfer
- c) E-cash
- d) CRM
- e) SCM
- f) E-mail spoofing
- g) VPN
- h) Active Server Pages
- i) Common Gateway Interface
- j) VRML(Virtual Reality Modelling Language)

SECTION-B

2 Attempt any five of the following:

(10×5=50)

- a). Describe Intra organizational Commerce and its application in the area of Business to Employee (B2E) services.
- b). What do you understand by protocol and briefly describe the role of TCP/IP in Internet?
- c) Describe the Radio-based Local Area Networks and their limitations.
- d) What is a Domain Name System? Show that it is an example of global distributed information management system.
- e) What is a firewall? Write down the different types of firewalls and mention their levels of security.
- f) What is difference between SMTP and HTTP? Describe salient features of Hypertext Transfer protocol.
- g) Define EDI. Specify four layers EDI architecture in detail.
- h) Describe impact of the network based e-commerce transactions on the traditional supply chain management.

SECTION-C

Attempt any two of the following :

(15×2=30)

- 3
 - i) Define interoperability in the context of online payment system.
 - ii) What are the various security issues in the context of online payment systems?
 - iii) Describe an online payment transaction in the Mondex Smart Card system.
- 4 Write short notes on any three of the following:
 - i) ATM
 - ii) ISDN
 - iii) SONET
 - iv) SDH
- 5
 - i) Describe a technique used for the non-repudiation of an ecommerce transaction.
 - ii) What is a low encryption attack on the RSA algorithm?
 - iii) Briefly describe the secure electronic transaction (SET) protocol.

Printed Pages: 4

NCS-068

(Following Paper ID and Roll No. to be filled in your Answer Books)

Paper ID: 1110068

Roll No.

1	1	1	0	0	6	8
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B. TECH.

Theory Examination (Semester-VI) 2015-16

E-COMMERCE

Time : 3 Hours

Max. Marks : 100

Section-A

1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10 = 20)

- Discuss the term e-commerce. What are the different types of e-commerce?
- Define internet. Why is internet important in e-commerce?
- Explain C2C e-commerce with an appropriate example.
- Why is security important in e-commerce?
- What do you mean by 'online payment'?
- List out the salient features of ATM.

(1)

- Explain the different types of digital documents.
- Discuss the major methods used for advertisement.
- What do you understand by EDI? Is EDI used in B2C or B2B e-commerce?
- Define the term VAN. What services do VANs provide?

Section-B

2. Attempt any five questions from this section.

(10×5 = 50)

- Describe the mobile commerce. How is it different from e-commerce?
- How does SSL help an electronic commerce system to be secure? What are the security issues to be taken into account while designing a security system for e-commerce?
- Discuss the firewall. Discuss various types of firewall with its functions.
- What is packet screening? Which hardware device does perform packet screening?

(2)

- (e) Differentiate between electronic cheque payment and credit card payment in e-commerce.
- (f) How do smart cards and credit cards play the roles in e-commerce applications?
- (g) Explain SET protocol used in credit card transactions. What is the main interesting aspect of SET protocol which gives confidence to customers transacting business using the internet?
- (h) What do you understand by symmetric key cryptography? What are the main advantages and disadvantages of symmetric key cryptography?

Section-C

Note : Attempt any two questions from this section.

(15 × 2 = 30)

- 3. What are the advantage of frame relay over X.25 and packet switching?
- 4. What are the main differences between DES based encryption and RSA based encryption? Is it possible to combine these two systems? If so, explain how?

5. Write Short Note on :

- (a) Digital signature & ISDN
- (b) Packet switching and circuit switching.

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13MCA353

Third Semester MCA Degree Examination, Dec.2015/Jan.2016

Basics of MIS and E-Commerce

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions.

- 1 a. Explain the general model of human as an information processor with neat diagram. (08 Marks)
b. Define information. Discuss the various parameters to measure information as a quality product. (07 Marks)
c. Explain the various attributes of information that increases the utility of information. (05 Marks)
- 2 a. Define MIS. Explain the role and impact of MIS in the organization. (10 Marks)
b. Explain management as a control system with a neat diagram. (10 Marks)
- 3 a. Define rational decision. Explain the Herbert Simon's model for the decision process. (10 Marks)
b. Discuss any two methods for deciding from various decision alternatives. (10 Marks)
- 4 a. Explain the phases of CRM with its benefits and challenges. (10 Marks)
b. Explain the trends and causes of failure in ERP. (10 Marks)
- 5 a. Explain the various strategies of client server implementation. (10 Marks)
b. Explain the impact of web on strategic management. (10 Marks)
- 6 a. Define E-commerce. Explain any four business models of E-commerce. (10 Marks)
b. Explain the following:
i) Internet information server
ii) Personal web server. (10 Marks)
- 7 a. Explain E-commerce payment systems. (10 Marks)
b. Discuss in detail the ethical, social and political issues in E-commerce. (10 Marks)
- 8 a. What is transaction system? Explain the features of XML. (10 Marks)
b. Write short notes on:
i) Digital government
ii) Web spider. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.



Printed Pages : 3

MCA – 245

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1462

Roll No.

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M. C. A.

(SEM. II) EXAMINATION, 2006-07

FUNDAMENTAL OF E-COMMERCE

Time : 3 Hours]

[Total Marks : 100

Note : (1) Attempt *all* questions.

(2) All questions carry *equal* marks

1 Attempt any **four** parts of the following : **5×4=20**

- (a) Why is e-commerce important in present pursuit of business? How does it function?
- (b) Describe different types of e-business and explain various environmental elements of a business firm.
- (c) What are the market forces behind I-way? Describe different components of I-way.
- (d) Differentiate between narrowband and broadband networks. Describe the use of broadband networks in e-commerce.
- (e) Explain B to B and B to C, E-commerce with suitable examples.
- (f) What are the differences among Intranet, Internet and Extranet?

V-1462]

1

[Contd...

2 Attempt any **four** parts of the following : **5×4=20**

- (a) What do you mean by WAP? Explain WAP architecture with diagram.
- (b) What do you understand by Mobile Information Devices (MID)? Write minimal characteristics of MIDs.
- (c) Explain different types of firewalls with example and also write some limitations of firewall.
- (d) What do you mean by Mobile computing? Explain how mobile computing can be used to improve business.
- (e) What do you mean by public key Encryption? Write RSA algorithm for public key encryption.
- (f) Explain SSL (Secure Socket Layer) in brief.

3 Attempt any **two** parts of the following : **10×2=20**

- (a) Client-Server model is the backbone to the E-commerce applications. Are there any security threats to it? If any, discuss.
- (b) Discuss how the electronic commerce framework is being built on World Wide Web (WWW) architecture.
- (c) Write short notes on :
 - (i) Virtual Private Networks (VPN)
 - (ii) Secure Electronic Payment Protocol (SEPP)

4 Attempt any **two** parts of the following : **10×2=20**

- (a) Define electronic payment system. Discuss various activities which take place in the digital token-based electronic payment system.

- (b) What are the salient features of smart card? What is money smart? Differentiate between smart card and credit card.
- (c) Discuss, in detail, the major risk incurred due to the electronic payment system with suitable example.

5 Attempt any **two** parts of the following : **10×2=20**

- (a) What do you mean by Electronic Data Interchange (EDI)? What are the main elements of EDI?
 - (b) What do you mean by Supply Chain Management? How is the supply chain management related to E-commerce?
 - (c) What do you mean by Customer Relationship Management? How can organizations achieve CRM?
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Printed Pages:2

Paper Id: 294209

Sub Code: NBC403

Roll No.

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MCA (DUAL DEGREE)
(SEM IV) THEORY EXAMINATION 2018-19
FUNDAMENTALS OF E-COMMERCE

Time: 3 Hours**Total Marks: 100****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A**

- 1. Attempt all questions in brief. 2 x 10 = 20**
- Define Encryption.
 - What are the types of E-Commerce?
 - Define Electronic Data Interchange.
 - Write down the strategies of internet.
 - What are the E-Commerce Security Threads?
 - Define Secure Electronic Transaction (SET).
 - Define Ciphertext.
 - Explain the significance of Cryptography.
 - What is network security protocol for E-Commerce?
 - Define government policies and agenda in E-commerce.

SECTION B

- 2. Attempt any three of the following: 10 x 3 = 30**
- What is a Domain Name System? Show that it is an example of global distrusted information management system.
 - What is difference between SMTP and HTTP? Describe salient feature of Hypertext Transfer protocol.
 - Define and explain the difference between intranet and extranet. Explain how they provide value to e-business? Discuss.
 - Describe a technique used for the non-repudiation of an e-commerce transaction.
 - Define E-commerce. Also discuss the importance of E-commerce. Explain B2C with an example.

SECTION C

- 3. Attempt any one part of the following: 10 x 1 = 10**
- Define M-Commerce? Discuss the importance of m-commerce in today business environment.
 - Explain the commercial transaction process in E-Commerce.
- 4. Attempt any one part of the following: 10 x 1 = 10**
- What is Wireless Application Protocol? Why WAP required in mobile phone system? Also explain WAP gateway.
 - Trace out the growth of e-commerce in India over the recent years.
- 5. Attempt any one part of the following: 10 x 1 = 10**
- What do you mean by symmetric key encryption works? What are the dimensions of e-commerce security not addressed by symmetric encryption?
 - How are client-based and server based digital wallets different? Why have server based digital wallets been more successful at being adopted?
- 6. Attempt any one part of the following: 10 x 1 = 10**
- Describe the working of public key cryptography? How does the addition of digital signature change the process?
 - Discuss the feature of IPSec protocol useful of setting the virtual networks. What are the advantages of setting virtual private networks?
- 7. Attempt any one part of the following: 10 x 1 = 10**
- Differentiate between electronic cheque payment and credit card payment in e-commerce.
 - What are the benefits offered by electronic banking? List the services cannot performed by electronic banking.

(Following Paper ID and Roll No. to be filled in your
Answer Books)

Paper ID : 214420

Roll No.

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M.C.A.

Theory Examination (Semester-IV) 2015-16

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours

Max. Marks : 100

Section-A

1. Attempt all questions : (2×10 = 20)

- (a) What do you mean by “E-Commere”?
- (b) Give four advantage of E-Commerce.
- (c) What is commercial database?
- (d) Give various componets of National Information infrastructure.
- (e) What do you mean by SCM?
- (f) What relation E-commerce is having with EDI?

- (g) Give types of E-commerce.
- (h) What are the obstacles come on the way in adopting E-commerce?
- (i) What is CRM?
- (j) What is EFT?

Section-B

2. Attempt any five parts. (10×5=50)

- (a) Discuss the security & legal issue of e-commerce.
- (b) Discuss the current and future application of e-commerce.
- (c) Describe how does financial transaction work an net?
- (d) What is electronics data interchange? How is it used in supply chain managemnet?
- (e) Explain how transaction processing system is implemented?
- (f) Explain the various essential tools of E-Commerce.
- (g) What are the suppliers of Data communication sevices? Explain in detail.
- (h) What are the various components of EDI? Explain EDI services.

Section-C

Attempt any two parts.

(15×2=30)

3. Distinguish between integrated electronic mail and voice mail.
4. Explain the role of Database services and server based application in electronic commerce.
5. How the efficiency of two supply chain having the same starting and end point are compared?

Printed Pages : 3



CA203

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 214203

Roll No.

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M.C.A.

(SEM. IV) THEORY EXAMINATION, 2014-15
FUNDAMENTAL OF E-COMMERCE

Time : 3 Hours]

[Total Marks : 100

Note : Attempt all questions. All question carry equal marks.**1** Attempt any four parts of the following : **5×4=20**

- (a) Define terms e-commerce and traditional commerce with example.
- (b) Explain the frame work of e-commerce.
- (c) Define the role of e-commerce in business, learning and services.
- (d) Describe various components of I-way.
- (e) Differentiate between e-commerce and e-business.
What are the features of e-commerce technology?
- (f) What are the various security issues related to e-commerce.

2 Attempt any four parts of the following: **5×4=20**

- (a) What is m-commerce? Explain its various application areas.
- (b) Discuss layered approach used in WAR
- (c) What do you mean by digital signature? How does it work?
- (d) What are mobile information devices? Explain with example.
- (e) How mobile computing can be used to improve business? Explain.
- (f) What is IT? Explain the role of IT in e-commerce.

3 Attempt any two parts of the following : **10×2=20**

- (a) Discuss various categories of e-commerce.
- (b) Explain different types of firewalls.
- (c) What is secure hash algorithm? Compare it with Message digest.

4 Attempt any two parts of the following : **10×2=20**

- (a) What is public key encryption? Write RSA algorithm.
- (b) Explain the various ethical issues related to e-commerce.
- (c) Explain in brief the architecture of Internet.

5 Attempt any two parts of the following: **10x2=20**

- (a) Define electronic payment system. Discuss its features and advantages.
 - (b) Explain different types of risks associated with Internet banking. Also discuss features of Internet banking.
 - (c) Write short notes on any two of the following:
 - (i) Economic potential of e-commerce
 - (ii) Virtual Private Network
 - (iii) Smart cards.
-

Printed Pages : 3



MCA413

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 214420

Roll No.

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M. C. A.

(SEM. IV) THEORY EXAMINATION, 2014-15

FUNDAMENTAL OF E-COMMERCE

Time : 3 Hours]

[Total Marks : 100

Note : (1) Attempt all question.

(2) All question carry equal marks.

1 Attempt any four question : 5×4=20

- (a) Discuss how the advancements in technology have benefitted e-commerce.
- (b) Explain the difference types of e-commerce models. Support your answer with suitable examples.
- (c) Explain the following :
 - (i) TCP/IP
 - (ii) Routers
 - (iii) Hub
 - (iv) ATM.

- (d) Explain client server architecture of e-commerce.
- (e) Explain the six layers of services in the architectural network of e-commerce.
- (f) Explain Merchantile's model from the Merchant's perceptive.

2 Attempt any four question : 10×2=20

- (a) What are the communication protocols used by Internet ? What is the advantage of using a common standard protocol for interconnecting computers ?
- (b) Discuss in brief WAP technology. Describe the model of internet based mobile computing.
- (c) What is m-commerce ? Discuss the advantages of using m-commerce over e-commerce. Highlight the applications of m-commerce.

3 Attempt any two question : 10×2=20

- (a) What are possible security threats in Client Server Network ? Discuss them.
- (b) What is firewall ? How does it protect a site ? Describe the components and types of firewall in detail.
- (c) Write short note on following :
 - (i) Network security
 - (ii) Transaction security.

- 4 Attempt any two question : $10 \times 2 = 20$
- (a) Describe Data Encryption Standard and the details of the steps involved in DES.
 - (b)
 - (i) Explain the step required RSA algorithm with suitable example.
 - (ii) Write short note on VPN.
 - (c) Discuss the following terms :
 - (i) Triple Encryption
 - (ii) Digital Public-Key Certificates
 - (iii) Sniffer
 - (iv) Message integrity.
- 5 Write short note any two of the following : $10 \times 2 = 20$
- (a) What are smart cards ? Discuss the various types of smart card. Explain the advantage of using smart card instead of credit card.
 - (b) What is digital cash ? What are the steps involved in e-cash transaction ? What properties it should have for successful transaction ?
 - (c) Write short notes on any two :
 - (i) SET protocol
 - (ii) E commerce law
 - (iii) EDI application in business.
-

Q5. Attempt any *two* questions from the following : 10x2=20

- (a) Explain the various legal issues related to e-commerce.
- (b) What is GRPS? Describe. How does it achieve the higher-data rates?
- (c) Write short notes on any *two* of the following
 - i) B2G
 - ii) GSM
 - iii) Digital signature

Printed Pages : 4



NBC403

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 294403

Roll No.

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MCA-DUAL DEGREE
(SEM. IV) THEORY EXAM. 2014-15
FUNDAMENTAL OF E-COMMERCE

Time : 3 Hours]

[Total Marks : 100

Note : Attempt the questions as indicated.

Q1. Attempt any *four* questions from the following : 5x4=20

- (a) What is e-commerce? Discuss its advantages and disadvantages.
- (b) Differentiate between *B2B*, *B2C* and *C2C* type e-commerce.
- (c) What are the various forces behind e-commerce? Discuss.

- (d) Explain the framework of e-commerce.
- (e) What are the market forces behind I-way? Discuss.
- (f) Identify the unique features of e-commerce technology and their business significance.

Q2. Attempt any *four* questions from the following : 5x4=20

- (a) Explain WAP architecture with diagram.
- (b) Differentiate between Internet, Intranet and Extranet.
- (c) Explain the role of m-commerce in India.
- (d) Describe the key dimensions to e-commerce security.
- (e) Describe the important factors in planning a firewall design.
- (f) Discuss the basic requirements of an online payment system.

Q3. Attempt any *two* questions from the following : 10x2=20

- (a) Discuss the different types of threats to e-commerce systems.
- (b) What is client-server environment? Describe security tools used in client-server environment.
- (c) What are the technologies required for mobile commerce? Explain.

Q4. Attempt any *two* questions from the following : 10x2=20

- (a) Describe the secure electronic transaction (SET) protocol.
- (b) Discuss and differentiate between prepaid and post-paid electronic payment systems.
- (c) What is encryption? Differentiate between symmetric and asymmetric encryption.

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1456

Roll No.

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M.C.A.

(SEMESTER-IV) THEORY EXAMINATION, 2011-12

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours]

[Total Marks : 100

Note : Attempt **all** sections.

Section – A

1. Attempt **all** parts.

10 × 2 = 20

- Give any four reasons for increasing the popularity of E-Commerce.
- Write any five benefits of E-Commerce.
- Explain the difference between mobile commerce and E-commerce.
- Discuss CDPD (Cellular Digital Packet Data) network reliability in mobile commerce.
- Explain any five benefits of client server technology.
- What is data diddling and data destruction ?
- How public key encryption is better than secret key encryption ? Give four reasons.
- Explain the working of secure socket layer (SSL) protocol.
- Explain smart card as internet payment method.
- What are designer and users liabilities for E-Commerce legal issues ?

Section – B

2. Attempt any **three** parts.

3 × 10 = 30

- Describe the architectural framework of e-commerce. What are the applications of this ?
- What is mobile computing ? And explain the applications of mobile computing.
- What do you mean by client – server network security ? Also explain the client server network security problems.
- Explain public key cryptography and write the RSA algorithm.
- What is SET (Secure Electronic transaction) protocol ? Explain the mechanics of SET.

Section – C

Attempt **all** questions.

3. Attempt any **two** parts. $2 \times 5 = 10$
- (a) Draw the layer diagram of TCP/IP protocol suit and explain it briefly.
 - (b) What do you know about broadband system ? Explain different types of broadband.
 - (c) Explain frame relay standardization and devices.
4. Attempt any **one** parts. $1 \times 10 = 10$
- (a) What is TDMA and what technology is used in TDMA ? List the various benefits of TDMA over CDMA.
 - (b) Discuss cellular communication. What is “Hand Off” situation in cellular communication and what is the solution to it ?
5. Attempt any **one** part. $1 \times 10 = 10$
- (a) How we can ensure a safe and secure e-commerce implementation through internet ?
 - (b) What do you know about firewall ? Explain all three types of firewalls.
6. Attempt any **two** parts. $2 \times 5 = 10$
- (a) How DES (Data Encryption Standards) important for business transactions ? Write algorithm for DES.
 - (b) What is digital certificate ? Explain the use of digital certificate in e-commerce.
 - (c) Explain the security mechanisms used in VPN and explain the tunnelling basics for VPN.
7. Attempt any **one** part. 1×10
- (a) What is EDI ? How EDI applications used in business ?
 - (b) Explain different EPS (Electronic Payment System) in brief.
 - (i) Electronic checks
 - (ii) Credit card
 - (iii) Debit card
 - (iv) Digi Cash (E-Cash)
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(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1456

Roll No.

0929014016

M.C.A.

(SEM. IV) THEORY EXAMINATION 2010-11

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours

Total Marks : 100

MCA405

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1480

Roll No.

(SEM. IV) THEORY EXAMINATION 2010-11

FOUNDATION OF E-COMMERCE

Time : 3 Hours

Total Marks : 100

Note :—(1) Attempt ALL questions.

(2) All questions carry equal marks.

1. Attempt any two parts of the following : (10×2=20)

(a) (i) Define E-Commerce. Also discuss the importance of E-Commerce.

(ii) Explain B2C E-Commerce with an appropriate example.

(b) Define and explain the difference between intranet and extranet. Explain how they provide value to e-business ? Discuss.

- (c) Explain the following in brief :
- (i) ATM (Asynchronous Transmission Mode)
 - (ii) ISDN (Integrated Services Digital Network).
2. Attempt any two parts of the following : (10×2=20)
- (a) What do you mean by m-commerce ? Discuss the importance of m-commerce in today's business environment.
 - (b) (i) What is WAP ? Why is WAP required in mobile phone system ?
 - (ii) Discuss about WAP gateway. Why is it required ? Also discuss its functions.
 - (c) Write short notes on :
 - (a) Mobile Computing.
 - (b) GPRS.
3. Attempt any two parts of the following : (10×2=20)
- (a) (i) Explain Firewall. Where is it used ? Why is it necessary ?
 - (ii) Discuss the working of packet filtering fire wall.
 - (b) Discuss the various factors that may be considered in firewall design.
 - (c) What do you understand by client/server computing ? Discuss the various ways to improve the performance of client server computing.
4. Attempt any two parts of the following : (10×2=20)
- (a) Describe the Digital Encryption standard algorithm briefly giving the various steps it uses for encryption. Is it considered secure ? If no, then give the reasons.

- (b) Explain how Diffie-Hellman key exchange algorithm can be used by a customer and vendor for secure e-commerce transaction.
 - (c) What is a digital signature ? How is an e-document signed by a sender and sent to a receiver ? Discuss.
5. Attempt any two parts of the following : (10×2=20)
- (a) What do you understand by on-line banking ? Discuss the merits and demerits of online banking.
 - (b) What is EDI ? How does EDI work ? Also discuss the benefits of EDI.
 - (c) (i) Why are e-commerce law required ? Discuss.
 - (ii) What is a credit card ? How are the credit card transactions carried out ? Discuss.

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MCA413

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1456

Roll No.

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M.C.A.

(SEM. IV) THEORY EXAMINATION 2010-11

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours

Total Marks : 100

MCA405

(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 1480

Roll No.

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(SEM. IV) THEORY EXAMINATION 2010-11

FOUNDATION OF E-COMMERCE

Time : 3 Hours

Total Marks : 100

Note :—(1) Attempt **ALL** questions.

(2) All questions carry equal marks.

1. Attempt any **two** parts of the following : (10×2=20)

(a) (i) Define E-Commerce. Also discuss the importance of E-Commerce.

(ii) Explain B2C E-Commerce with an appropriate example.

(b) Define and explain the difference between intranet and extranet. Explain how they provide value to e-business ?

Discuss.

- (c) Explain the following in brief :
- (i) ATM (Asynchronous Transmission Mode)
 - (ii) ISDN (Integrated Services Digital Network).
2. Attempt any **two** parts of the following : **(10×2=20)**
- (a) What do you mean by m-commerce ? Discuss the importance of m-commerce in today's business environment.
 - (b) (i) What is WAP ? Why is WAP required in mobile phone system ?
(ii) Discuss about WAP gateway. Why is it required ? Also discuss its functions.
 - (c) Write short notes on :
 - (a) Mobile Computing
 - (b) GPRS.
3. Attempt any **two** parts of the following : **(10×2=20)**
- (a) (i) Explain Firewall. Where is it used ? Why is it necessary ?
(ii) Discuss the working of packet filtering fire wall.
 - (b) Discuss the various factors that may be considered in firewall design.
 - (c) What do you understand by client/server computing ? Discuss the various ways to improve the performance of client server computing.
4. Attempt any **two** parts of the following : **(10×2=20)**
- (a) Describe the Digital Encryption standard algorithm briefly giving the various steps it uses for encryption. Is it considered secure ? If no, then give the reasons.

- (b) Explain how Diffie-Hellman key exchange algorithm can be used by a customer and vendor for secure e-commerce transaction.
- (c) What is a digital signature ? How is an e-document signed by a sender and sent to a receiver ? Discuss.

5. Attempt any **two** parts of the following : **(10×2=20)**

- (a) What do you understand by on-line banking ? Discuss the merits and demerits of online banking.
- (b) What is EDI ? How does EDI work ? Also discuss the benefits of EDI.
- (c)
 - (i) Why are e-commerce law required ? Discuss.
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MCA413

(Following Paper ID and Roll No. to be filled in your Answer Book)

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M.C.A.

(SEM. IV) THEORY EXAMINATION 2010-11

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours

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(SEM. IV) THEORY EXAMINATION 2010-11

FOUNDATION OF E-COMMERCE

Time : 3 Hours

Total Marks : 100

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PAPER ID : 1456

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(SEM IV) EVEN SEMESTER THEORY EXAMINATION,
2009-2010

FUNDAMENTALS OF E-COMMERCE

Time : 3 Hours

Total Marks : 100

Note : *Attempt all questions.*

1. Attempt any four parts of the following : (4x5=20)

- (a) What do you understand by e-commerce ?
Explain the various business models of e-commerce.
- (b) How does e-commerce help companies to provide better services to their customers ?
- (c) What are the forces behind the development of e-commerce ? Also write down the reasons of e-commerce failure.
- (d) How the broadband technologies play an important role in e-commerce ?
- (e) Discuss the architectural framework for e-commerce in detail.
- (f) Write a short note on ISDN.

2. Attempt **any four** parts of the following : (4x5=20)
- (a) Differentiate between the wireless and mobile computing.
 - (b) What are WAPs and where are they used ?
 - (c) What do you mean by mobile information access devices ? Name any three such devices and write down few lines for each.
 - (d) Define the following terms and give one example for each :
 - (i) CDMA
 - (ii) GPRS
 - (e) What do you understand by Inter-organizational e-commerce ? Discuss the pros and cons of it.
 - (f) Name two major technologies used for high-speed global information distribution networks. Explain any one of the technologies.

3. Attempt **any two** parts of the following : (2x10=20)
- (a) What is a client server network ? What may be the security threats to it and what protection methods are used to reduce these security threats ?
 - (b) Define encryption. Differentiate between the symmetric and asymmetric cryptography with the help of suitable examples.
 - (c) What is a firewall and how does it help in transaction security ? Differentiate between application level firewalls and network level firewalls.

4. Attempt **any two** parts of the following : (2x10=20)

- (a) What do you mean by cryptography ? Explain the symmetric and asymmetric cryptography in detail.
- (b) What is digital signature ? Explain with the suitable diagram that how it works ?
- (c) Write short notes on the following :
 - (i) Sniffer
 - (ii) Message Integrity
 - (iii) DSS
 - (iv) Digital Public-Key Certificates

5. Attempt **any two** parts of the following :

(a) Answer the following questions : (4+4+2=10)

- (i) Write down the factors that must be addressed before any payment method can be successful.
- (ii) What is a debit card ? How it differs with a credit card and a smart card ?
- (iii) Is e-cash preferable to ordinary cash ? Why or why not ? What is payment-gateway ? Why it is important for the money transaction on Internet ? Discuss the various issues that are involved in electronic payment system (EPS).

(b) Answer the following questions : (2+2+3+3=10)

- (i) What is EDI ?
- (ii) How supply chain management can be improved with the help of EDI ?
- (iii) What is online banking ?
- (iv) What is magnetic strip card ? How it is different with other plastic money ?

(c) Answer the following questions : (5+5=10)

- (i) What are the challenges before the law makers for e-commerce ?
- (ii) How the Government policies do effects the development of e-commerce ?

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PAPER ID : 1480

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(SEM. IV) EXAMINATION, 2006-07

FOUNDATION OF E-COMMERCE

Time : 3 Hours]

[Total Marks : 100

*Note : Attempt **all** questions.*

1. Attempt any **two** parts of the following :
 - (a) Define e-commerce and describe how it differs from e-business. What are the limitations of E-commerce?
 - (b) Identify the unique features of e-commerce technology and their business significance.
 - (c) What are the steps required to transform business to e-business? How can electronic commerce help to reduce the production cycle time?
2. Attempt any **two** parts of the following :
 - (a) Explain how the WAP protocol is structured and how the different WAP layers map into internet protocol layers.
 - (b) Discuss the mobile computing applications in details.
 - (c) How can information from the internet be accessed using a WAP device? Discuss in detail the functionality of a WAP gateway.

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3. Attempt any **four** parts of the following :
- (a) Discuss why new and improved security measures are not enough to stop online crime.
 - (b) Why are some online merchants hesitant to ship to international addresses? What are some of the risks of doing so?
 - (c) Describe the key dimensions of e-commerce security.
 - (d) Identify the major points of vulnerability in a typical online transaction.
 - (e) How does spoofing threaten a web site's operations?
 - (f) What are the components of firewall? What are its limitations?
4. Attempt any **two** parts of the following :
- (a) Explain how symmetric encryption works. What are the dimensions of e-commerce security not addressed by symmetric encryption?
 - (b) Describe the working of public key cryptography? How does the addition of a digital signature change the process?
 - (c) Discuss the features of IPSec protocol useful for setting the virtual private networks. What are the advantages of setting virtual private networks?
5. Attempt any **four** parts of the following :
- (a) What are the current limitations of online credit card payment systems?

- (b) Explain how Set protocol functions. What are the differences between the SSL protocol and the SET protocol?
 - (c) How are client-based and server based digital wallets different? Why have server based digital wallets been more successful at being adopted?
 - (d) How is money transferred in transactions using wireless devices?
 - (e) What are the benefits offered by electronic banking? List the services cannot be performed by electronic banking.
 - (f) Define cyber squatting. How is it different from cyber piracy? What type of intellectual property violation does cyber squatting entail?
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