



**UNIVERSITI TUN HUSSEIN ONN MALAYSIA**

**FINAL EXAMINATION  
SEMESTER III  
SESSION 2014/2015**

COURSE NAME : E-COMMERCE SECURITY  
COURSE CODE : BIS 10203  
PROGRAMME : 1 BIS  
EXAMINATION DATE : AUGUST 2015  
DURATION : 2 HOURS AND 30 MINUTES  
INSTRUCTION : ANSWER ALL QUESTIONS.

THIS QUESTION PAPER CONSISTS OF **SEVEN (7)** PAGES

**SECTION A**

**Q1** Which of the following is not related to security mechanism?

- A. Encryption
- B. Decryption
- C. E-cash
- D. All the above

**Q2** eBay is a good example to define \_\_\_\_\_.

- A. B2B
- B. B2C
- C. C2C
- D. G2C

**Q3** Which of the following describes e-commerce?

- A. Doing business electronically
- B. Doing business
- C. Sale of goods
- D. All of the above

**Q4** Secure Socket Layers perform the following process.

- A. Creates a secure, private connection to a web server
- B. Encrypts information
- C. Sends information over the internet
- D. All of the above

**Q5** The practice of forging a return address on an e-mail is called \_\_\_\_\_.

- A. hacking
- B. cracking
- C. dumpster diving
- D. spoofing

**Q6** What is a detailed process for recovering an Information Technology system from a disaster?

- A. Disaster recovery plan
- B. Hot site
- C. Cold site
- D. Disaster recovery cost curve

**Q7** Which one of this will not harm computer resources?

- A. Firewall
- B. Virus
- C. Trojan horse
- D. None of the above

**Q8** The virus spreads through \_\_\_\_\_.

- A. mails
- B. pen drives and cds
- C. websites
- D. All of the above

**Q9** During e-commerce transaction, we should ensure \_\_\_\_\_.

- A. integrity
- B. security
- C. confidentiality
- D. All of the above

**Q10** The study of encryption is called \_\_\_\_\_.

- A. decryption
- B. cryptography
- C. firewall
- D. All of the above

- Q11** The basic requirements for transaction security are \_\_\_\_\_.
- A. privacy, confidentiality, integrity
  - B. privacy, meaning, customer touch
  - C. All of the above
  - D. None of the above
- Q12** \_\_\_\_\_ floods a web site with so many requests for service that eventually will slow down or crashes.
- A. Computer virus
  - B. Worm
  - C. Denial-of-service attack
  - D. None of the above
- Q13** The protocol which allows the file transfer between computers is \_\_\_\_\_.
- A. TCP/IP
  - B. FTP
  - C. HTTP
  - D. SOA
- Q14** Secret key is used for \_\_\_\_\_.
- A. public key cryptography
  - B. private key cryptography
  - C. asymmetric key cryptography
  - D. None of these
- Q15** Which one of the following is a communication channel security protocol?
- A. SML
  - B. HTTP-S
  - C. SET
  - D. S-FTP

- Q16** Which one is also known as plastic money?
- A. Credit card
  - B. Debit card
  - C. Paper cash
  - D. All of the above
- Q17** \_\_\_\_\_ is a program that records every keystroke and mouse click.
- A. Key logger software
  - B. Hardware key logger
  - C. Cookie
  - D. Adware
- Q18** Cookies are used to do which of the following?
- A. Store your ID and password for subsequent logons to the site
  - B. Store contents of electronic shopping carts
  - C. To track web activity
  - D. All of the above
- Q19** \_\_\_\_\_ is the process of making a copy of the information stored on a computer.
- A. Backup
  - B. Anti-virus
  - C. Firewall
  - D. Biometrics
- Q20** \_\_\_\_\_ software detects and removes or quarantines computer viruses.
- A. Backup
  - B. Anti-virus
  - C. Firewall
  - D. Biometrics

(20 marks)

**SECTION B**

- Q21** (a) Describe **TWO (2)** common threats in e-commerce environment. (4 marks)
- (b) Common e-commerce security concepts are:  
"Integrity, Non repudiation, Authentication, Confidentiality, Availability and Privacy"
- Map only **ONE (1)** security concept for each of the following scenario:
- (i) "Google analyze all email in gmail to profile users' preferences."
  - (ii) "Faizal hack SMAP and change his grade."
  - (iii) "To transfer via online banking, a person must know user name and password and have the right handphone to receive TAC number."
  - (iv) "Adla writes her password and paste it on her desktop pc."
  - (v) "Momo purchases a book about "How to Clone Credit Card" from online bookstore using Visa card. In the court, she deny the purchase."
  - (vi) "Jemal proposes to use a secondary server in case the first server goes down."
- (12 marks)
- (c) Describe **FOUR (4)** technology solutions based on three key points of vulnerability. (4 marks)
- Q22** (a) Describe how phishing work using a diagram. (10 marks)
- (b) Kamal has just finished installing and configuring an e-commerce server
- Suggest **FIVE (5)** physical security mechanisms that can be implemented to protect the server. (10 marks)

- Q23** (a) Aminah intends to purchase a flower from an e-commerce site CantikLawa Sdn Bhd using SSL.

Demonstrate how SSL provides security to both parties using an appropriate diagram.  
(10 marks)

- (b) Compare **TWO (2)** types of payment systems with one real-life example for each.  
(10 marks)

**- END OF QUESTIONS -**