FINAL
Examination Paper

(COVER PAGE)

Session : January 2013

Programme : Diploma in Business Administration Programme

Course : CSC1170 : Information Technology Principles

Date of Examination : 6 March 2013

Time : 2p.m. – 4p.m. Reading Time : Nil

Duration : 2 Hours

Special Instructions :

This paper consists of TWO (2) sections. Answer ALL questions in SECTION A and any THREE (3) questions in SECTION B in the answer booklet provided.

Materials permitted : Nil

Materials provided : OMR Sheets

Examiner(s) : Koh Chong Lin

Moderator : Krishnamoorthy

This paper consists of 6 printed pages, including the cover page.
SECTION A : There are TWENTY (20) questions in this section. Answer ALL the questions. Each question is TWO (2) MARKS.

1. Which of the following denotes the physical location of a particular file or set of data on a magnetic disk?
   A. Cylinder  
   B. Data Compression Index  
   C. CD-R  
   D. Disk Address  
   E. None of the above

2. The disk caching area is __________.
   A. on a floppy disk  
   B. in RAM  
   C. on a hard disk  
   D. on the monitor’s expansion board

3. Using disk capacity to expand RAM capacity is called __________.
   A. virtual memory  
   B. RAM-expand  
   C. actual disk  
   D. mystic RAM

4. Which of the following memory groups are in order based on speed (slowest to fastest)?
   A. registers, cache, RAM  
   B. cache, RAM, registers  
   C. cache, registers, RAM  
   D. RAM, cache, registers  
   E. None of the above

5. BIOS software is stored permanently __________.
   A. in flash memory  
   B. in DDR SDRAM  
   C. on hard disk  
   D. on DVD-ROM  
   E. in processor
6. Which port enables the parallel transmission of data within a computer system?
   A. Serial
   B. Parallel
   C. Centronics
   D. Speaker
   E. Paralex

7. A GUI is __________.
   A. text-based
   B. graphics-based
   C. label-based
   D. paste-based
   E. none of the above

8. The Operating System for the Apple iMac is __________.
   A. OS Mac
   B. iMac OS
   C. Mac OS X
   D. The Mac BOSS
   E. AppleMac

9. Which of the following would not be considered utility software?
   A. Virus protection
   B. Temperature monitoring
   C. Disk maintenance
   D. Gaming
   E. None of the above

10. Information technology is the integration of computer technology and __________.
    A. information processing
    B. societal trends
    C. PCs
    D. knowledge workers
    E. robots

11. Which of these is not a means of personal communication on the Internet?
    A. Electronic mail
    B. Instant messaging
    C. Instanotes
    D. Chat
    E. None of the above
12. People talk to their PCs via __________.
   A. voice typing
   B. voice overlay software
   C. Speech Acceptance Technology
   D. Speech Recognition Technology
   E. Voice Synthesizers Technology

13. High-speed access to the Internet is known as __________.
   A. narrowband
   B. all-band
   C. megaband
   D. broadband
   E. tmnut

14. Which of the following lets us view the Internet content?
   A. World Wide Web
   B. Web World Wide
   C. Wide World Web
   D. World Web Networks
   E. None of the above

15. People new to the Internet are called __________.
   A. dweebs
   B. webers
   C. novice surfers
   D. newbies
   E. computing morons

16. The study of the relationships between people and their machines is called __________.
   A. humanology
   B. human economics
   C. ergology
   D. ergonomics
   E. bionics

17. One way to fight computer virus is to use __________.
   A. Antibug
   B. Antivirus
   C. Antidote
   D. Antilogic
   E. Backup
18. The unlawful duplication of proprietary software is called _________.

A. copyright crime  
B. software bootlegging  
C. software piracy  
D. software thievery  
E. software privacy

19. What name is given to a program intended to damage the computer system of an unsuspecting victim?

A. Virus  
B. Bug  
C. Germs  
D. Fever  
E. Terrorists

20. Data in a spreadsheet are referred to by their cell called _________.

A. box  
B. number  
C. address  
D. code  
E. labels
SECTION B: Answer any THREE (3) questions in the answer booklet. Each question is TWENTY (20) MARKS.

Question 1

a) Define the following categories of Information Technology. Give ONE (1) example for each.
   i) Hardware
   ii) Software

   (2 marks)
   (2 marks)

b) Briefly describe the THREE (3) factors to be considered in determining the monitor quality.

   (6 marks)

c) List and briefly describe the FIVE (5) major categories of computer hardware.

   (10 marks)

Question 2

a) Define the following terms:
   (i) Web site
   (ii) Web site address
   (iii) Domain name
   (iv) Web page

   (2 marks)
   (2 marks)
   (2 marks)
   (2 marks)

b) Briefly describe any THREE (3) communications software and THREE (3) telecommunications hardware that you need in order to connect to the internet.

   (12 marks)

Question 3

a) Explain the following terms:
   (i) Technology-literate knowledge workers
   (ii) Information-literate knowledge workers
   (iii) Ethics

   (2 marks)
   (2 marks)
   (2 marks)

b) Explain FOUR (4) benefits of using a computer.

   (8 marks)

c) Explain THREE (3) benefits of using USB Flash Drive as compared to a floppy disk.

   (6 marks)

Question 4

a) Piracy of application software is becoming a serious issue in our society nowadays. Briefly describe any TWO (2) methods that can be used to prevent this problem.

   (4 marks)

b) List and briefly explain FOUR (4) operations of a machine cycle.

   (8 marks)

c) How is pipelining different from parallel processing?

   (8 marks)

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