CONFIDENTIAL

MALAYSIA INSTITUTE OF INFORMATION TECHNOLOGY

FINAL EXAMINATION

JANUARY 2016 SEMESTER

SUBJECT CODE	:	**IFD21903**
SUBJECT TITLE	:	**NETWORK OPERATING SYSTEM**
LEVEL	:	**DIPLOMA**
TIME / DURATION	:	**9.00 am – 11.30 am (2 HOURS)**
DATE	:	**24 MAY 2016**

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INSTRUCTIONS TO CANDIDATES

1. **Please read the instructions given in the question paper CAREFULLY.**
2. **This question paper is printed on both sides of the paper.**
3. **This question paper consists of TWO (2) parts. Part A and B.**
4. **Answer ALL questions.**
5. **Please write your answers on the OMR form and answer booklet provided.**

THERE ARE 9 PAGES OF QUESTIONS, INCLUDING THIS PAGE.

SECTION A (Total: **40** marks)

MULTIPLE CHOICE QUESTIONS

INSTRUCTION: Answer ALL questions.

Please use the OMR sheet provided.

1. There are two type of basic software which are :
   A. System Software & User Software
   B. System Software & Adhoc Software
   C. Utilities Software & User Software
   D. System Software & Application Software

2. ***"Open source OS, Personal computer and network OS, Stable OS, Quickly modified or updated, Download as distros"***.
   These statements talks about which of the following OS?
   A. Windows 2012 R2 Server
   B. Unix OS
   C. Windows NT server 4
   D. Linux

3. Processor Management includes the following Activities, **EXCEPT:**
   A. Switches among processes
   B. CPU performs several tasks at once
   C. Assigns time to each activity
   D. Performing Disk scans

4. The Acronym **BIOS** Stands for:
   A. Basic Internal Output System
   B. Biometric Input Output System
   C. Bipolar Input Optimisation System
   D. Basic Input Output System

5. State the advantage of having a large network
   A. Purchase of specialized Equipment
   B. Tedious Network Administration
   C. Possibility of congestion
   D. Support more users / nodes

6. The IEEE Standard for Wired Ethernet Networking is:
   A. 802.3
   B. 802.4
   C. 802.5
   D. 802.11

7. The IEEE Standard for Wireless Ethernet Networking is:
   A. 802.3
   B. 802.4
   C. 802.5
   D. 802.11

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8. ***"Provides communication between networks".*** This statement talks about:
   A. Router
   B. Switch
   C. Access Point
   D. Server

9. You can take the following precaution to secure your wireless network, **EXCEPT**:
   A. Create a passphrase
   B. Extend your signal range
   C. Apply firmware upgrades
   D. Implement Media Access Control (MAC) addresses

10. The main purpose of a computer virus is to:
   A. Slow down networks
   B. Replicate themselves and copy
   C. Display annoying messages
   D. Destroy files or contents of hard drive

11. These are type of Hackers, **EXCEPT**:
   A. White Hat
   B. Red Hat
   C. Black Hat
   D. Grey Hat

12. **"Appear to be useful but actually malicious"**. This statement is true regarding:
   A. Zombie
   B. Trojan Horse
   C. Rootkits
   D. Logic Bomb

13. **"Legitimate users are denied access to a computer system"**. This statement best describe :
   A. Logic Bombs
   B. Denial of Service Attack
   C. Man-In-Middle attack
   D. Ip Spoofing

14. Below are common biometric authentication techniques used to identify a user, **EXCEPT:**
   A. Iris Pattern
   B. Finger print
   C. Voice recognition
   D. skin type recognition

15. ***"Transmits information, Tracking cookies, Keystroke logger"***. These are typical activities of a :
   A. Ad-Ware
   B. Spyware
   C. Malware
   D. Spamware

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16. What is the option for backing up data/files?
    A. Detrimental Backup
    B. Future Backup
    C. Incremental Backup
    D. Step up Backup

17. The term Phishing means:
    A. Malicious code planted in browser software to gather information
    B. Testing software security on real people
    C. Luring people into revealing information
    D. Gathering information using automated technique

18. How do you manage online annoyances such as spyware and spam?
    A. Install Antivirus
    B. Delete and install Internet Browser
    C. Install anti Malware tools
    D. Disconnect from the network

19. Gathering information by hackers through trickery and fooling people to disclose information is called:
    A. Social Engineering
    B. Social Behaviour Study
    C. Social Behaviour pattern
    D. Anti-Social

20. Malware can exist in **THREE** primary forms, **EXCEPT**:
    A. Spyware
    B. Adware
    C. Viruses
    D. Bloatware

21. Which of the following statements is a good justification for the use of a server-based network?
    A. The computers on the network should act as equal partners.
    B. All company data should be backed up to a central location daily.
    C. Individual users control their own resources.
    D. The network consists of seven users.

22. What is a benefit of network services?
    A. Network services allow all users on a network to share expensive devices such as printers.
    B. Network services limit the number of tasks performed by computers
    C. Network services reduce the amount of overall maintenance required
    D. Network services improve data security

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23. What is a major advantage of a ring topology?
    A. There is more bandwidth
    B. It is easy to add another node to the network without interruption
    C. There are no collisions
    D. Wire access is not shared

24. Which of the following cannot be assigned by a DHCP server?
    A. IP address
    B. MAC address
    C. Default gateway
    D. Subnet mask

25. What is one advantage of using DHCP over static IP addressing?
    A. Using DHCP enables many host to attach to a single modem
    B. Using DHCP means the host will boot faster
    C. Using DHCP makes it easier for the network administrator to administer the hosts on the network
    D. Using DHCP will increase the network bandwidth

26. Which of the following situations is only supported by multiuser operating systems?
    A. Two or more users working at the same time
    B. One user switching between multiple programs
    C. One user opening and closing several programs
    D. Two users working at different times of the day

27. A server system typically requires more of which resources than a client system?
    A. Memory, disk space, monitors
    B. Processors, disk space, memory
    C. Disk space, processors, users
    D. Printer, processors, memory

28. What is a bootable partition?
    A. A partition of at least 40 MB
    B. A partition with a NOS
    C. A partition with an OS
    D. The CD-ROM partition

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29. Which of the following file systems would be most appropriate for a Windows 2012 disk partition?
    A. NTFS
    B. FAT 16
    C. FAT 32
    D. ext2

30. Which level of control does the System Administrator have over an NOS?
    A. complete
    B. system backup
    C. network security
    D. user account

31. Which type of backup procedure consists of copying all of the hard drive data to tape at the end of each day?
    A. Incremental
    B. Full
    C. Differential
    D. Partial

32. Which of the following describes a network bottleneck?
    A. The point where all the network components come together
    B. The point in the network that limits data throughput
    C. The point where data enters the network
    D. The point in the network with the least number of hosts

33. UDP stands for
    A. User Datagram Protocol
    B. Unified Datagram Protocol
    C. Unidentified Data Protocol
    D. Unutilised Datagram Protocol

34. POST stands for
    A. Power On Service Test
    B. Power On Service Task
    C. Power On Special Test
    D. Power On Self Test

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35. A typical speed of a Cat 5E UTP cable is:
    A. 1 Gbps
    B. 200 Mbps
    C. 100 Mbps
    D. 10 Mbps

36. The term Modem stands for:
    A. Modulate / Demodulate
    B. Moderate / Demoderate
    C. Modernise / Demodernise
    D. Modify / Demodify

37. The type of network connection for a portable / mobile device is usually:
    A. Wired
    B. Wireless
    C. Hybrid
    D. Not connected at all

38. The term bandwidth usually means:
    A. Minimum data loss theoretically possible
    B. The size of the cable
    C. Maximum rate actually achieved
    D. Maximum rate of data transfer theoretically possible

39. The term throughput usually means:
    A. Minimum data loss theoretically possible
    B. The size of the cable
    C. Maximum rate actually achieved
    D. Maximum rate of data transfer theoretically possible

40. ***"Enables users to access applications and content via the web anywhere, on any machine, and at any time. Pioneered by Google"***. This statement best describe which of the following operating system?
    A. Cloud Based Operating System
    B. Network Operating Sytem
    C. Open Source Operating System
    D. Real Time Operating System

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SECTION B (Total: **60** marks)
INSTRUCTION: Answer ALL questions.

Please use the answer booklet provided.

Question 1

a. Expand the following acronyms (6 marks)

i. GUI
ii. RAM
iii. CMOS
iv. API
v. FAT

b. Briefly describe **THREE(3)** types of software that is included in sytem software (6 marks)

c. When you start your computer, it runs through a special process called the boot process. List **FOUR(4)** basic steps of the boot process. (6 marks)

d. State **ONE(1)** benefit of using a GUI based Operating System. (2 marks)

[Total : 20 marks]

Question 2

a. Expand the following acronyms (6 marks)

i. Gbps
ii. RF
iii. NIC
iv. NAT
v. MAN

b. Briefly describe **THREE(3)** main components of Every Network (6 marks)

c. Networks can be defined by the distance between nodes. Briefly describe the difference between **PAN**, **LAN**, and **WAN**. (6 marks)

d. State **ONE(1)** advantage of using a Network. (2 marks)

[Total : 20 marks]

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Question 3

a. Expand the following acronyms (6 marks)

i. MBR

ii. Mbps

iii. DHCP

iv. P2P

v. NAS

b. Computer viruses can be grouped into six categories. List the **SIX(6)** categories of computer viruses. (6 marks)

c. List **THREE(3)** damaging activities that a hacker can do when they gain access to a computer. (6 marks)

d. State **ONE(1)** method to avoid phishing scheme. (2 marks)

[Total : 20 marks]

END OF EXAMINATION PAPER

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