

ENAT QUESTION PAPERS

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LAST DATE TO SUBMIT APPLICATION FOR MANIPAL MTECH/MS PROGRAMS is 22nd APRIL.

For CS ENAT 2010 MTECH and MS DUAL DEGREE paper in MANIPAL

Which of the following algorithms has running time $O(n^2)$ in the worst case but $O(n \log n)$ on average?

- (A) Bubblesort
- (B) Mergesort
- (C) Heapsort
- (D) Quicksort
- (E) Tournament sort

which of the following is the name of the data structure in a compiler that is responsible for managing information about variables and their attributes?

- (A) Abstract Syntax Tree (AST)
- (B) Attribute Grammar
- (C) Symbol Table
- (D) Semantic Stack
- (E) Parse Table

Consider the following pseudocode.

```
x := 1;
i := 1;
while (x ≤ 1000)
begin
x := 2x ;
i := i + 1;
end;
```

What is the value of i at the end of the pseudocode?

- (A) 4
- (B) 5
- (C) 6
- (D) 7
- (E) 8

Which of the following statements about Ethernets is typically FALSE?

- (A) Ethernets use circuit switching to send messages.
- (B) Ethernets use buses with multiple masters.
- (C) Ethernet protocols use a collision-detection method to ensure that messages are transmitted properly.
- (D) Networks connected by Ethernets are limited in length to a few hundred meters.
- (E) Packets sent on Ethernets are limited in size.

A k-ary tree is a tree in which every node has at most k children. In a k-ary tree with n nodes and height h, which of the following is an upper bound for the maximum number of leaves as a function of h, k, and n ?

- (A) $\log_k n$
- (B) $\log_k h$
- (C) $\log_k n$
- (D) k^h
- (E) h^k

Which of the following is (are) true about virtual memory systems that use pages?

- I. The virtual address space can be larger than the amount of physical memory.
 - II. Programs must be resident in main memory throughout their execution.
 - III. Pages correspond to semantic characteristics of the program.
- (A) I only (B) II only (C) I and II (D) I and III (E) II and III

Let $T(n)$ be defined by $T(1) = 7$ and $T(n + 1) = 3n + T(n)$ for all integers $n \geq 1$. Which of the following represents the order of growth of $T(n)$ as a function of n ?

- (A) $O(n)$ (B) $O(n \log n)$ (C) $O(n^2)$ (D) $O(n^2 \log n)$ (E) $O(2^n)$

One approach to handling fuzzy logic data might be to design a computer using ternary (base-3) logic so that data could be stored as "true," "false," and "unknown." If each ternary logic element is called a flit, how many flits are required to represent at least 256 different values?

- (A) 4 (B) 5 (C) 6 (D) 7 (E) 8

In the Internet Protocol (IP) suite of protocols, which of the following best describes the purpose of the Address Resolution Protocol?

- (A) To translate Web addresses to host names
- (B) To determine the IP address of a given host name
- (C) To determine the hardware address of a given host name
- (D) To determine the hardware address of a given IP address
- (E) To determine the appropriate route for a datagram

Let A and B be two sets of words (strings) from S^* , for some alphabet of symbols S . Suppose that B is a subset of A . Which of the following statements must always be true of A and B ?

- I. If A is finite, then B is finite.
 - II. If A is regular, then B is regular.
 - III. If A is context-free, then B is context-free.
- (A) I only (B) II only (C) III only (D) I and II only (E) I, II, and III

COMPUTER NETWORKS QUESTION

The maximum number of nodes per segment depends on the _____?

- a) Bandwidth
- b) Desired throughput
- c) Regeneration ability
- d) Attenuation

2) Information can be transmitted via one of _____ signaling method(s).

- a) One
- b) Two
- c) Four
- d) Five

3) IEEE designates Thicknet as _____ Ethernet.

- a) 10Base5
 - b) 10BaseT
 - c) 10Base10
 - d) 10Base2
-

4) Vertical connectors between floors are known as _____.

- a) Spans
 - b) Riser
 - c) Lift
-

5) _____ ensure(s) that data are transferred whole, in sequence, and without error from one node on the network to another.

- a) Data Packets
 - b) Addressing
 - c) Protocol
 - d) File services
-

6) The maximum segment length on a 10BaseT network is _____ meters.

- a) 10
 - b) 50
 - c) 100
 - d) 1000
-

7) The first networks transmitted data over thick, heavy coaxial cables.

- a) True
 - b) False
-
-

8) Which cannot support full-duplexing?

- a) 100BaseT4
 - b) 10BaseT
 - c) 100BaseTX
-

9) Which is not an example of transmission media?

- a) Wire
 - b) Coaxial cable
 - c) Radio waves
 - d) Fiber Optic
 - e) None of the above
-

10) Mail services requires a significant commitment of technical support and administration and resources due to their_____.

- a) Instability
 - b) ability
 - c) Routing capability
 - d) Heavy use
-

11) WAN requires the same technology as LAN.

- a) True
 - b) False
-

12) Mail services can only run one kind of system.

- a) True
 - b) False
-

13) On modern networks, the transceiver are separate from the NICs.

a) True

b) False

14) You can mix 100BaseTX and 1000BaseT4 on a single network segment.

a) True

b) False

15) How many layers in the OSI model?

a) 5

b) 7

c) 6

d) 8

e) 4

16) Which device act as a traffic cop?

a) Router

b) Hub

c) Switch

d) Modem

17) Collision occurs when two devices on the same network segment attempt to simultaneously transmit.

a) True

b) False

18) Fiber Optic cable conducts electricity.

a) True

b) False

19) What is SMTP?

- a) Simple Mailer transport protocol
 - b) Simple mail transport protocol
 - c) Single Mail transport protocol
-

20) An organization that share devices, saves_____.

- a) Money
 - b) Time
 - c) Space
 - d) All of the above
-

21) Peer-to-Peer network are not flexible.

- a) True
 - b) False
-

22) Windows 98 does not qualify as a netowrk-operating system.

- a) True
 - b) False
-

23) The computer you are controlling or working via a network.

- a) remote computer
 - b) local computer
 - c) standalone computer
 - d) host computer
-

24) You should always try to pull all networks services on a single server.

- a) True
 - b) False
-

25) HTTP is the protocol use to view web pages.

- a) True
- b) False

26) A network of computers and other devices that is confined to a relatively small space.

- a) Global network
- b) Local area network
- c) Peer-to-Peer network
- d) Metropolitan network

27) What layer of OSI does the encryption/decryption?

- a) Network layer
- b) Presentaion layer
- c) Application layer
- d) Data Link layer

28) E-mail use communication protocol.

- a) SMTP
- b) HTTP
- c) ICMP
- d) TCP/IP

29) What is the default port number for SMTP?

- a) 21
 - b) 22
 - c) 28
 - d) 25
-

30) What is the default port number for FTP?

- a) 21
- b) 25
- c) 18
- d) 20
-

31) What is the default port number for Web server such as IIS and Apache?

- a) 60
- b) 55
- c) 80
- d) 70
- e) 26
-

ENAT MANIPAL GENERAL QUESTIONS.

1. A Compiler is _____

- >a combination of computer hardware
- >a program which translates from one high-level language to another
- >a program which translates from one high-level to a machine level
- >None of these
-

2. When a key is pressed on the keyboard, which standard is used for converting the keystroke into the corresponding bits

- >ANSI
- >ASCII
- >EBCDIC
- >ISO
-

3. A Pixel is

- >A computer program that draws picture
- >A picture stored in secondary memory
- >The smallest resolvable part of a picture
- >None of these
-

4. Which device is used as the standard pointing device in a Graphical User Environment

- >Keyboard
- >Mouse
- >Joystick
- >Track ball
-

5. Which number system is usually followed in a typical 32-bit computer?

- >2
- >10
- >16
- >32
-

6. Which of the following is not an output device?

>Scanner >Printer >Flat Screen >Touch Screen

7. Which of the following devices have a limitation that we can only information to it but cannot erase or modify it

>Floppy Disk >Hard Disk >Tape Drive >CDROM

8. Which technology is used in Compact disks?

>Mechanical >Electrical >Electro Magnetic >Laser

9. Which of the following storage devices can store maximum amount of data?

>Floppy Disk >Hard Disk >Compact Disk >Magneto Optic Disk

10. Which of the following is the largest manufacturer of Hard Disk Drives?

>IBM >Segate >Microsoft >3M

11. The memory location address are limited to

>00000 to 9ffff(16) >00001 to 9ffff(16) >00010 to 9ffff(16) >10000 to 9ffff(16)

12. The programs which are as permanent as hardware and stored in ROM is known as

>Hardware >Software >Firmware >ROMware

13. Memory is made up of

>Set of wires Set of circuits >Large number of cells >All of these

14. Primary memory stores

>Data alone >Programs alone >Results alone All of these

15. EPROM can be used for

>Erasing the contents of ROM >Reconstructing the contents of ROM >Erasing and reconstructing the contents of ROM >Duplicating ROM

16. Which device can understand difference between data & programs?

>Input device >Output device >memory >Microprocessor

17. The contents of information are stored in

>Memory data register >Memory address register >Memory access register >Memory arithmetic register

18. Memory unit is one part of

>Input device >Control unit >device >Central Processing Unit

19. Algorithm and Flow chart help us to

>Know the memory capacity

>Identify the base of a number system

>Direct the output to a printer

>Specify the problem completely and clearly

20. Which of the following is not a valid size of a Floppy Disk?

>8"

>5 1/4"

>3 1/2"

>5 1/2"

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