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Written test: MFCP-Programmer

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Roll Number:

1. A term associated with comparison of processing speeds of different computer systems is ?
A. EFTS
B. MPG
C. MIPS
D. CPS
2. How many different binary trees are possible with 3 nodes ?
A. 12
B. 5
C. 3
D. 7
3. Which language has become defacto standard for interfacing application program with relational database system ?
A. Oracle
B. SQL
C. dbase
D. 4GL
4. Protocol used for sending mail
A. FTP
B. SMTP
C. Telnet
D. TCP/IP
5. Translation from symbolic program into binary is done in
A. two passes
B. directly
C. three passes
D. four passes.
6. Relation produced from an E-R model will always be in
A. First Normal Form

- B. Second Normal Form
- C. Third Normal Form
- D. Fourth Normal Form

7. Which of the following is not characteristics of a relational database model ?

- A. Table
- B. Tree like structure
- C. Complex logical relationship
- D. Records

8. What will be output if you will compile and execute the following c code?

```
#include <stdio.h>
#include <string.h>
int main()
{
    char *str=NULL;
    strcpy(str,"cquestionbank");
    printf("%s",str);
    return 0;
}
```

- A. Cquestionbank
- B. cquestionbank\0
- C. (null)
- D. It will print nothing

9. Translating the problem into a series of sequential steps describing what the program must do is known as:

- A. Coding
- B. Debugging
- C. creating the algorithm
- D. writing documentation

10. The bus which is used to transfer data from main memory to peripheral device is

- A. data bus
- B. input bus
- C. DMA bus
- D. output bus

11. ASCII stands for

- A. American standard code for international interchange
- B. American standard code for information interchange
- C. American standard code for intelligence interchange
- D. American scientific code for information interchange

12. In a C program constant is defined

- A. before main

- B. after main
- C. anywhere but starting on a new line
- D. in the middle

13. Which of the following buses is unidirectional ?

- A. address bus
- B. data bus
- C. input/output bus
- D. control bus

14. In memory types DDR is the abbreviation for

- A. Dynamic Double Rate
- B. Data double rate
- C. Double Density Rate
- D. Double data rate

15. Which of the following helped to develop standard for high level programming languages ?

- A. ISO
- B. ANSI
- C. CCITT
- D. IBM

16. An interrupt for which hardware automatically transfers the program to a specific memory location is known as ?

- A. Software interrupt
- B. Hardware interrupt
- C. Maskable interrupt
- D. Vector interrupt

17. If a disk has seek time of 20 ms, rotates 20 revolutions per second , has 100 words per block, and each track has capacity of 30 words, then the total time required to access one block is 30

- A. 25
- B. 30
- C. 40
- D. 60

18. What is the name of the operating system that reads and reacts in term if actual time.

- A. batch system
- B. quick response system
- C. real time system
- D. time sharing system

19. Which of the following statements is true about file system conversions using convert utility ?

- A. You can convert from FAT8 or FAT16 to NTFS

- B. You can convert from FAT16 or FAT32 to NTFS
- C. You can convert NTFS to FAT32
- D. You can convert NTFS to FAT16

20. Tera is 2 to the power of ?

- A. 10
- B. 25
- C. 40
- D. 32

21. $X - = Y + 1$ is equivalent to

- A. $X = X - Y + 1$
- B. $X = X - Y - 1$
- C. $X - Y + 1$
- D. $X - Y = 1$

22. Data entry can be performed with all of the following except

- A. OCR
- B. OMR
- C. COM
- D. MICR

23. CSMA/CD is used in

- A. Token ring
- B. ATM
- C. Ethernet
- D. Frame relay

24. Which command would you use to test communications with another computer based on its IP address ?

- A. IPCONFIG
- B. TESTIP
- C. PING
- D. GROPE

25. Star, Ring, Bus networks are examples of

- A. wireless LAN
- B. Network Topologies
- C. Modem
- D. OSI

26. ODBC stands for

- A. Object Database Connectivity
- B. Oral Database Connectivity
- C. Oracle Database Connectivity
- D. Open Database Connectivity

27. The gate whose output is low if and only if all inputs are high is

- A. NAND
- B. OR
- C. NOR
- D. AND

28. What does the acronym (ISDN) stand for ?

- A. Indian standard digital network
- B. Integrated services digital network
- C. Intelligent services digital network
- D. Integrated services data network

29. A software program stored in a ROM that can not be changed easier is knows as

- A. hardware
- B. linker
- C. editor
- D. firmware

30. Point out error, if any , in the for loop

```
Main()
{
int i=1;
for (;;)
{
printf("%d",i++);
if (i >10)
break;
}
}
```

eof 1

- A. The condition in the for loop is a must
- B. The two semicolons should be dropped.
- C. The for loop should be replaced by a while loop
- D. No error

31. Which of the following statements about Ethernets is FALSE?

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

32. In C++ syntax, which of the following is the Boolean operator for logical-and?

- A. &
- B. &&
- C. |
- D. |&

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33. Observe the following C++ statements and identify what function they perform?

```
string mystring;  
getline(cin, mystring);
```

- A. reads a line of string from cin into mystring
- B. reads a line of string from mystring into cin
- C. cin can't be used this way
- D. Interchange the contents of mystring and cin

34. When new data are to be inserted into a data structure, but there is no available space; this situation is usually called

- A. underflow
- B. overflow
- C. houseful
- D. saturated

35. In OSI network architecture, the dialogue control and token management are responsibility of

- A. session layer
- B. network layer
- C. transport layer
- D. data link layer

36. The process of converting analog signals into digital signals so they can be processed by a receiving computer is referred to as:

- A. modulation
- B. demodulation
- C. synchronizing
- D. digitizing

37. Which of the following modes support two-way traffic but in only one direction at a time?

- A. Simplex
- B. half duplex
- C. three-quarters duplex
- D. duplex

38. How do printf()'s format specifiers %e and %f differ in their treatment of floating-point numbers?

- A. %e displays argument of type double with trailing zeros; %f never displays trailing zeros.
- B. %e displays a double in engineering notation if the number is very small or very large. Otherwise, it behaves like %f and displays the number in decimal notation.
- C. %e always displays an argument of type double in engineering notation; %f always displays an argument of type double in decimal notation.
- D. %e expects a corresponding argument of type double; %f expects a corresponding argument type float

39. Which one of the following will read a character from the keyboard and store it in the variable c?

- A. `c = getc()`
- B. `c = getchar(stdin)`
- C. `getchar(&c)`
- D. `c = getchar();`

40. What is the maximum number that can be printed using `printf("%d\n", x)`, assuming that x is initialized as shown below?

`short int x; /* assume x is 16 bits in size */`

- A. 127
- B. 255
- C. 32,767
- D. 65,536

41. The terms push and pop are related to

- A. arrays
- B. Lists
- C. Stacks
- D. compilers

42. The Boolean function $X1Y1Z1 + XY1Z1 + X1YZ1 + XYZ1$ is equivalent to

- A. $X1Y$
- B. $Z1$
- C. $Y1$
- D. $XY1$

43. Internet Information Services is a Server

- A. data base
- B. mail
- C. web
- D. security

44. When applied to a variable, what does the unary "&" operator yield?

- A. The variable's address
- B. The variable's right value
- C. The variable's binary form
- D. The variable's format

45. Which of the following registers is used to keep track of address of the memory location where the next instruction is located?

- A. Memory Address Register
- B. Memory Data Register
- C. Instruction Register
- D. Program Register

46. In MSDOS command prompt, which command displays all the files having the same name but different extensions?

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- A. Dir filename.*
- B. Dir filename.ext
- C. Dir *.sys
- D. Dir *.ext

47. PHP is a widely used scripting language that is especially suited for web development and can be embedded into html

- A. Open source general purpose
- B. Proprietary general purpose
- C. Open source special purpose
- D. Proprietary special purpose

48. Which one of the following variable names is NOT valid in C language?

- A. go_cart
- B. go4it
- C. 4season
- D. run4

49. ISO 27000 series standard deals with

- A. Environment management
- B. Information systems management
- C. Quality system management
- D. Software validation

50. Choose the answer which best describes the term Primary Key:

- A. A field that contains data that can be duplicated
- B. A field that contains data that is unique
- C. A field that is never associated with any field in other tables.
- D. A concept used only in Microsoft Access

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