

BSNL TTA Question Paper-Computers Specialization 2007

1. What is the name of the software that allows us to browse through web pages?

- (a) Browser
- (b) Mail Client
- (c) FTP Client
- (d) Messenger

2. What is the address given to a network called?

- (a) System Address
- (b) SYSID
- (c) Process ID
- (d) IP Address

3. Which one of the following is a valid DOS command?

- (a) LIST *.*
- (b) LIST???.???
- (c) RECOVER A:
- (d) RENAME A:SAMPLE.TXT C:TEST.DOC

4. All system settings in WINDOWS are stored in:

- (a) CONTROL.INI
- (b) MAIN.INI
- (c) SYSTEM.INI
- (d) SETTING.INI

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

- (a) 2
- (b) 10
- (c) 16
- (d) 32

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

- (a) Printer
- (b) Scanner
- (c) Flat Screen

(d) Touch Screen

7. A microprocessor is a processor with reduced

- (a) instruction set
- (b) power requirement
- (c) MIPS performance
- (d) none of the above

8. Which of the following is not an output of an assembler?

- (a) executable program
- (b) source listing with line numbers and errors
- (c) a symbol table
- (d) object program

9. Which layer of OSI model is responsible for routing and flow control:

- (a) Presentation
- (b) Transport
- (c) Network
- (d) Data Link

10. Arrays are passed as arguments to a function by

- (a) value
- (b) reference
- (c) both a and b
- (d) none of the above

11. Array is:

- (a) linear data structure
- (b) non-linear structure
- (c) none of the above

12. A data structure in which elements are added and removed from only one end, is known as:

- (a) Array
- (b) Stack
- (c) Queue
- (d) None of the above

13. A diamond-shaped box in an Entity-Relationship diagram refers to:

- (a) Entity
- (b) Relationship
- (c) Attribute

14. The principle means of identifying entities within an entity set is:

- (a) Primary Key
- (b) Record
- (c) Attribute
- (d) Tuple

15. Modem refers to:

- (a) Modulator
- (b) Modulation
- (c) Demodulator
- (d) Modulator and Demodulator

16. C language is available for which of the following Operating Systems?

- (a) DOS
- (b) Windows
- (c) Unix
- (d) All of the above

17. Which of the following have the fastest access time?

- (a) Magnetic Tapes
- (b) Magnetic Disks
- (c) Semiconductor Memories
- (d) Compact Disks

18. DMA stands for:

- (a) Direct Memory Allocation
- (b) Distinct Memory Allocation
- (c) Direct Memory Access
- (d) Distinct Memory Access

19. Array subscripts in C always start at:

- (a) 1
- (b) 0
- (c) 1
- (d) Value provided by user

20. Which type of commands in DOS needs additional files for their execution?

- (a) Batch Commands
- (b) Internal Commands
- (c) External Commands

21. Which of the following statements in regard to Directories is false?

- (a) Directories can exist inside directories
- (b) The root directory is always at the highest level
- (c) Directories with files can be deleted
- (d) Directories cannot be renamed

22. It is better to buffer a table when

- (a) When a table is read infrequently
- (b) When a table is linked to check tables
- (c) When a table is read frequently and the data seldom changes
- (d) When a single record is to be picked up

23. The Operating System is responsible for:

- (a) Controlling peripheral devices such as monitor, printers, disk drives
- (b) Provide an interface that allows users to choose programs to run and to manipulate files
- (c) Manage users' files on disk
- (d) All of the above

24. A company wishes to connect two sites in different parts of the country together. It is decided to use the telephone system. What device should be connected to the file servers on each site?

- (a) Router
- (b) Modem
- (c) Switch
- (d) Hub

25. What is a file server?

- (a) A computer that performs a service for other computers
- (b) A computer that controls the printers on the network
- (c) A computer that stores files that are created by network users

26. What is the Protocol used for the Internet?

- (a) IPX/SPX
- (b) NetBIOS/NetBEUI
- (c) CDMA/CA
- (d) TCP/IP

27. Which one of the following is not a Normal Forms (Normalization) rule with regards to the Relational Model?

- (a) All fields within a table must relate to or directly describe the Primary Key.
- (b) Repeating Groups must be eliminated from tables.
- (c) Fields that can contain non-numeric data are to be removed and placed within their own tables with

an associated Primary Key.

(d) Redundant data is to be eliminated by placing the offending fields in another table.

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

(a) The Primary Key is a field that contains data that can be duplicated.

(b) The Primary Key is a field that contains data that is unique.

(c) The Primary Key is a field that is never associated with any field in other tables.

(d) The Primary Key field is a concept used only in Microsoft Access.

29. Which technique is used to reduce the size of a file:

(a) Compression

(b) Decompression

(c) Encryption

(d) Decryption

30. BIOS stands for

(a) Binary Input Output Set

(b) Binary Input Output System

(c) Basic Input Output Set

(d) Basic Input Output System

31. A floppy disk is consisting of 40 tracks, each track contains 100 sectors, and the capacity of a sector is 512 bytes, what is the approx. size of that disk?

(a) 1 MB

(b) 2 MB

(c) 4 MB

(d) 8 MB

32. What is the binary equivalent of a decimal number 68:

(a) 1000100

(b) 1100100

(c) 1000010

(d) 1000001

33. Assembly language to machine language translation is:

(a) One-to-One

(b) One-to-Many

(c) Many-to-One

(d) Many-to-Many

34. Maximum size of IP address is:

- (a) 12 bits
- (b) 24 bits
- (c) 32 bits
- (d) 48 bits

35. RAM stands for

- (a) Read Access Memory
- (b) Read After Memory
- (c) Random Access Memory
- (d) Random After Memory

36. What is the final value of sum?

```
main ()
{
int sum=1;
for(;sum<=9;)
printf("%d\n", ++sum);
}
```

- (a) 9
- (b) 10
- (c) 11
- (d) none of the above

37. If c is a variable initialized to 1, how many times the following loop be executed:

```
while(c>0 && c<60)
{
c++;
}
```

- (a) 59
- (b) 60
- (c) 61
- (d) none of the above

38. The declaration void fun(int) indicates the fun is a function which:

- (a) has no arguments
- (b) returns nothing
- (c) both a and b
- (d) none of the above

39. Out of the following which is not valid network topology:

- (a) Bus
- (b) Star
- (c) Circle
- (d) Tree

40. The overall logical structure of a database can be expressed graphically by:

- (a) Data Flow Diagram
- (b) Flow Chart
- (c) Directed Graph
- (d) Entity-Relationship Diagram

41. CARRY, in a half-adder, can be obtained using:

- (a) OR gate
- (b) AND gate
- (c) EX-OR gate
- (d) EX-AND gate

42. The memory that requires refreshing of data is:

- (a) SROM
- (b) DROM
- (c) SRAM
- (d) DRAM

43. The minimum number of bits required to represent numbers in the range:28 to +31 is-

- (a) 5
- (b) 6
- (c) 7
- (d) 8

44. Which bus carries information between processors and peripherals?

- (a) Data bus
- (b) Control bus
- (c) Address bus
- (d) Information bus

45. Which part of the computer perform arithmetic calculations?

- (a) Control unit
- (b) Registers
- (c) ALU

(d) CPU

46. A gigabyte represents:

(a) 1 billion bytes

(b) 1000 kilobytes

(c) 2^{30} bytes

(d) 10 megabytes

47. The minimum number of bits required to store the hexadecimal number FF is:

(a) 2

(b) 4

(c) 8

(d) 16

48. Cache memory enhances:

(a) memory capacity

(b) memory access time

(c) secondary storage capacity

(d) secondary storage access time

49. A UPS:

(a) increases the storage capacity of a computer system

(b) increases the processor speed

(c) provides backup power in the event of a power cut\

(d) none of the above

50. An RDBMS is a:

(a) Remote DBMS

(b) Relative DBMS

(c) Reliable DBMS

(d) Relational DBMS