

1. A 2MB PCM(pulse code modulation) has

- a) 32 channels
- b) 30 voice channels & 1 signalling channel.
- c) 31 voice channels & 1 signalling channel.
- d) 32 channels out of which 30 voice channels, 1 signalling channel, & 1 Synchronizatio channel.

Ans: (c)

2. Time taken for 1 satellite hop in voice communication is

- a) 1/2 second
- b) 1 seconds
- c) 4 seconds
- d) 2 seconds

Ans: (a)

3. Max number of satellite hops allowed in voice communication is :

- a) only one
- b) more han one
- c) two hops
- d) four hops

Ans: (c)

4. What is the max. decimal number that can be accomodated in a byte.

- a) 128
- b) 256
- c) 255
- d) 512

Ans: (c)

5. Conditional results after execution of an instruction in a micro processor is stored in

- a) register
- b) accumulator
- c) flag register
- d) flag register part of PSW(Program Status Word)

Ans: (d)

6. Frequency at which VOICE is sampled is

- a) 4 Khz
- b) 8 Khz

- c) 16 Khz
- d) 64 Khz

Ans: (a)

7. Line of Sight is

- a) Straight Line
- b) Parabolic
- c) Tx & Rx should be visible to each other
- d) none

Ans: (c)

8. Purpose of PC(Program Counter) in a MicroProcessor is

- a) To store address of TOS(Top Of Stack)
- b) To store address of next instruction to be executed.
- c) count the number of instructions.
- d) to store base address of the stack.

Ans: (b)

9. What action is taken when the processor under execution is interrupted by a non-maskable interrupt?

- a) Processor serves the interrupt request after completing the execution of the current instruction.
- b) Processor serves the interrupt request after completing the current task.
- c) Processor serves the interrupt request immediately.
- d) Processor serving the interrupt request depends upon the priority of the current task under execution.

Ans: (a)

10. The status of the Kernel is

- a) task
- b) process
- c) not defined.
- d) none of the above.

Ans: (b)

11 What is the nominal voltage required in subscriber loop connected to local exchange?

- a) +48 volts

- b) -48 volts
- c) 230 volts
- d) 110 volts

12. To send a data packet using datagram , connection will be established

- a) before data transmission.
- b) connection is not established before data transmission.
- c) no connection is required.
- d) none of the above.

Ans: (c)

13. Word allignment is

- a) aligning the address to the next word boundary of the machine.
- b) aligning to even boundary.
- c) aligning to word boundary.
- d) none of the above.

Ans: (a)

14 When a 'C' function call is made, the order in which parameters passed to the function are pushed into the stack is

- a) left to right
- b) right to left
- c) bigger variables are moved first than the smaller variales.
- d) smaller variables are moved first than the bigger ones.
- e) none of the above.

Ans: (b)

15 What is the type of signalling used between two exchanges?

- a) inband
- b) common channel signalling
- c) any of the above
- d) none of the above.

Ans: (a)

16. Buffering is

- a) the process of temporarily storing the data to allow for small variation in device speeds
- b) a method to reduce cross talks
- c) storage of data within transmitting medium until the receiver is ready to receive.
- d) a method to reduce routing overhead.

Ans: (a)

17. A protocol is a set of rules governing a time sequence of events that must take place between

- a) peers
- b) non-peers
- c) allocated on stack
- d) assigned to registers.

18. Memory allocation of variables declared in a program is

- a) allocated in RAM.
- b) allocated in ROM.
- c) allocated on stack.
- d) assigned to registers.

Ans: (c)

19. A software that allows a personal computer to pretend as a computer terminal is

- a) terminal adapter
- b) bulletin board
- c) modem
- d) terminal emulation

Ans: (d)

The following questions (Q20-Q33) are of a slightly different pattern than those above and may also be asked:

20. Find the output of the following program

```
int *p,*q;  
p=(int *)1000;  
q=(int *)2000;  
printf("%d",(q-p));
```

Ans: 500

21. What does the statement `int(*x[])()` indicate?

22. Which addressing mode is used in the following statements:

- (a) MVI B,55
- (b) MOV B,A
- (c) MOV M,A

Ans. (a) Immediate addressing mode.
(b) Register Addressing Mode
(c) Direct addressing mode

23. RS-232C standard is used in _____.

Ans. Serial I/O

24. How are parameters passed to the main function?

25. What does the file stdio.h contain?

- a) function definition
- b) function declaration
- c) both func. defn & func. declaration.

26. scanf is used for ?

27. Memory Management in Operating Systems is done by

- a) Memory Management Unit
- b) Memory management software of the Operating System
- c) Kernel

Ans: (b)

28. What does the statement strcat(S2,S1) do?

29. TCP(Transmission Control Protocol) is Connection Oriented and used in _____ layer?

30. IP(Internet Protocol) is connectionless and used in _____ layer?

31. For LAN Network layer is not required. Why?

32. What is done for a Push operation?

Ans: SP is decremented and then the value is stored.

33. Describe the following structures as LIFO/FILO/FIFO/LILO

- (a) Stack**
- (b) Queue**