



- 309 & 313 PRATAP CHAMBERS, GURUDWARA ROAD,
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Rewarding Career

Test Code: CTNC - II

Questions: 25

Max. Time: 1 Hr.

1. A part of computer that contains circuit for carrying out arithmetic operations & comparisons.
(a) Floppy drive (b) Console
(c) Hard disk (d) ALU
2. The programs, which process data for the users, are called
(a) Hardware (b) Application software
(c) Firmware (d) none of these
3. Identify the low level language
(a) C (b) Pascal
(c) Assembly language (d) Fortran
4. ASCII contains
(a) 7 bits (b) 8 bits
(c) 11 bits (d) 12 bits
5. Computers in which data is represented as physical quantities such as temperature, pressure, speed of sound etc are called
(a) Digital computers (b) Micro computers
(c) Analog computers (d) none of these
6. The basic program, which is used to control basic functions of the hardware devices, is
(a) BIOS (b) I/O
(c) Device driver (d) none of these
7. Cache is a
(a) Chilly catchup
(b) Sequential memory device
(c) High speed buffer type memory
(d) none of these
8. Software interface for accessing certain services like Internet is called
(a) Application software (b) Firmware
(c) Browser (d) none of these
9. Tools used in software engineering
(a) CAD (b) CASE
(c) CBT (d) All of the above
10. System of telecommunication to transmit images, which are reproduced at the receiving terminal as hard copy is called
(a) E-mail (b) Telegram
(c) Letter (d) Facsimile
11. Systems which attempts to mimic the problem solving activities and performance of an expert are called
(a) MIS (b) DSS
(c) ES (d) none of these
12. Superset of Boolean logic which handles concept of partial truth i.e. values between completely true and completely false is called
(a) Binary (b) Ternary
(c) Quaternary (d) none of these
13. The number of logical errors in the following code is

```
scanf ("%d%d%d",sa,sb,sc);  
max = a;  
if (max > b) max = b;  
if (max > c) max = c;  
printf ("%d",max);
```


(a) 0 (b) 1
(c) 2 (d) ≥ 3
14. KKB is equal to
(a) 1000 bytes (b) 1024 bytes
(c) 210 bytes (d) none of these
15. The specialized software that controls & monitors all the other programs is called
(a) Application software (b) BIOS
(c) OS (d) none of these
16. The output of the following code is

```
for (i = 1; i < 10; i++);
printf ("%d", i);
```

- (a) 1, 2, 3, . . . , 9 (b) 1, 2, 3, . . . , 10
(c) 2, 3, 4, . . . , 9 (d) none of these

17. In computers “virus” is a

- (a) Organism which keeps in to the system from the environment
(b) Application program
(c) Self replicating program
(d) none of these

18. 4GL is a

- (a) Procedural language
(b) Non Procedural language
(c) Both (a) and (b)
(d) none of these

19. In a video library the most suited processing system would be

- (a) Batch processing system
(b) Real time processing system
(c) On-line processing system
(d) All of the above

20. How many times is the following loop executed?

```
int S = 0, i = 0;
while (i < 5)
    S = S + i;
```

- (a) 5 (b) 6
(c) 4 (d) none of these

21. A goto alters the normal flow of control

- (a) Conditionally (b) Unconditionally
(c) Both (a) or (b) (d) none of these

22. Given the following code fragments

(I)

```
if (a == 0) printf ("zero");
if (a == 1) printf ("one");
if (a == 2) printf ("two");
```

(II)

```
if (a == 0) printf ("zero");
else if (a == 1) printf ("one");
else if (a == 2) printf ("two");
Which code is better?
```

- (a) I (b) II
(c) Both are same (d) cannot be evaluated

23. Given a list of elements as an array L[n]. Identify the functioning of the code

```
for ( i = 1; i < n; i++)
for ( j = 0; j < n-1; j++)
    if (L[j] > L[j+1])
        swap (L[j], L[j+1]);
```

- (a) Find the largest and second largest of n numbers
(b) Finds minimum of n numbers
(c) Finds median of n numbers
(d) none of these

24. Identify the functioning of the following code

```
max 1 = L[0];
max 2 = L[1];
for ( i = 2; i < n; i++)
    if (L[i] > max 2)
```

```
    if (L[i] > max 1)
```

```
    max 2 = max 1;
    max 1 = L [i];
```

```
    { }
```

```
    else    max 2 = L[i];
```

(L is same as in the previous question)

- (a) Finds maximum of n numbers
(b) Sorts n numbers
(c) Finds maximum and second maximum of n numbers
(d) none of these

25. Consider the following program segment

```
scanf ("%d", si); flag = 1;
for ( j = 2; j ≤ sqrt(i); j++)
    if (i % j == 0) flag = 0;
if (flag == 1) printf ("%d", i);
    for a given i ≥ 3 it prints i only if
```

- (a) i is odd (b) i is prime
(c) i is even (d) i is composite