

## Sample Questions for CDAC Common Admission Test (C-CAT)

## Section A

- 1. The stenographer is very efficient. He is \_\_\_\_\_ to his firm.
  - A) an asset
  - B) a credit
  - C) a blessing
  - D) a boon
- 2. This brand of TV is quite inferior\_\_\_\_\_ that one.
  - A) than
  - B) to
  - C) with
  - D) over
- 3. Two men start together to walk to a certain destination, one at 3 kmph and another at 3.75 kmph. The latter arrives half an hour before the former. What is the distance?
  - A) 6km
  - B) 7.5km
  - C) 8km
  - D) 9.5km
- 4. What is the average of the positive numbers from 1 to 100?
  - A) 49.5
  - B) 50
  - C) 50.5
  - D) 51
- 5. If RAJIYA is coded as YARAJI, How is SHIVANI CODED?
  - A) NISIHVA
  - B) NISHVIA
  - C) NISHIVA
  - D) NIHSIVA
- 6. The value of A is 1 if A% of 100 is1, then what is the value of p if p% of 50 is 85?
  - A) 160
  - B) 170
  - C) 180
  - D) 185

## Section B

}

 What is the output of following program? int main() {

```
char boolean[][6]={"TRUE","FALSE"};
printf("%s",boolean[(unsigned int)-1 == ~0]);
```



- A) 0B) 1C) FALSED) Run time error
- What will be the out put of following program? #include<stdio.h> void main()

```
{
    int n=0;
    if(n++)
    {
        printf("C-DAC");
    }
        else if(n--)
    {
        printf("ACTS");
    }
}
A) C-DAC
B) ACTS
C) C-DAC ACTS
D) Error
```

- 3. Which of the following stack operations would result in stack underflow?
  - A) Peek
  - B) Pop
  - C) Push
  - D) Two or more of the above answers
- 4. Which of the following statement is true?
  - A) A link list is a collection of structure a ordered by their physical placement in memory like an array
  - B) The double linked lists have no beginning and no end
  - C) A stack is a buffer in which data items are retrieved in reverse order from which they are placed in the buffer
  - D) None of the above
- 5. Which of these is not a layer of the TCP/IP model?
  - A) Network
  - B) Internet
  - C) Presentation
  - D) Application
- 6. Which of the following topologies is used for Ethernet?
  - A) Star
  - B) Bus
  - C) Ring
  - D) All of the above



- 7. Which of the following is the most suitable scheduling scheme in a real-time operating system?
  - A) Round-robin
  - B) First-come-first-served
  - C) Pre-emptive scheduling
  - D) Random scheduling
- 8. In which of the following scheduling policies does context switching never take place?
  - A) Round-robin
  - B) Shortest job first
  - C) Pre-emptive
  - D) All of the above
- 9. What is the advantage of inheritance?
  - A) Achieves Reusability of code
  - B) Hides the data
  - C) Allows usage of common function for multiple tasks
  - D) Handles the Exception
- 10. A Vehicle and an engine have a \_\_\_\_\_
  - A) Is A relationship
  - B) Has A relationship
  - C) No relationship
  - D) Polymorphic relationship

## Section C

- 1. How many flip-flop circuits are needed to divide by 16
  - A) Two
  - B) Four
  - C) Eight
  - D) Sixteen
- 2. Program counter in a digital computer
  - A) counts the number of programs run in the machine
  - B) counts the number of times a sub-routine is called
  - C) counts the number of time the loops are executed
  - D) points the memory address of the current or the next instruction
- 3. S-R type flip-flop can be converted into D type flip-flop if S is connected to R through
  - A) OR gate
  - B) inverters
  - C) AND gate
  - D) Full Adder
- 4. Why DMA is faster than Programmer I/O technique?
  - A) DMA transfers data directly using CPU
  - B) DMA transfers data directly without using CPU



- C) DMA uses buffers with CPU
- D) DMA uses interrupted driven I/O
- 5. Convert decimal value (888)<sub>10</sub> to base-5.
  - A) (444)<sub>5</sub>
  - B) (12023)<sub>5</sub>
  - C) (131313)<sub>5</sub>
  - D) (12021)<sub>5</sub>
- 6. Simplify the Boolean expression (A+B+C)(D+E)' + (A+B+C)(D+E) and choose the best answer.
  - A) A + B + C
  - B) D + E
  - C) A'B'C'
  - D) D'E'
- 7. If the quantization error is 0.1% which of the following AD converter it belongs to?
  - A) 10 bit A/D converter
  - B) 5 bit A/D converter
  - C) 1 bit A/D converter
  - D) 20 bit A/D converter
- 8. For a request of data if the requested data is not present in the cache, it is called a \_\_\_\_\_
  - A) Cache Miss
  - B) Spatial Locality
  - C) Temporal Locality
  - D) Cache Hit
- 9. When the address of the subroutine is already known to the Microprocessor then it is \_\_\_\_\_ interrupt.
  - A) Maskable
  - B) Non-maskable
  - C) Non-vectored
  - D) Vectored