

ALUMNUS

Sample Test paper

1. Find the locus of the point whose sum of distance from 2 fixed points is constant.
2. $[-\infty \text{ to } +\infty] \int \exp(-x^x)$
3. The product of any 3 consecutive nos is always divisible by _ ? options [12/6/10/24]

```
4 int i=0,j=50
  while (i<j)
  {
    if(<some condtn>)
    {
      <body of the loop>
      i++
    }
    elseif(<some condtn>)
    { <body of the loop>
      j--
    }
    else(<some condtn>)
    {<body of the loop>
      j--
    }
  }
}
```

How many times the body of the loop is going to be executed?
options [unknown/25/50/depends on the given condtn]

- 5 How can you include a library code written in C++ in a source code written in C?
(Options are there)
Ans. Some cross-linked platform (compiler) is required for this.

```
6 int a[20],i
  for(i=0;i<20;i++)
  {
    a[i]=i;
  }
  for(i=0;i<20;i++)
  {
    a[i]=a[20-i]
  }
}
```

What is the final content of the program.

- 7 Which data structure should be used for searching an element in an array in constant time in case of average case? Ans. Hash table (not sure)
- 8 One question on ISO OSI model. easy one (not remembered)
- 9 Another question abt. a protocol Ans. Token/Ring
- 10 If we want to connect two systems to form a network which layer (OSI) is of most interest to us?
Ans. Physical layer.