

PH.D ENTRANCE EXAMINATION
Department of Computer Science
Model Question paper

(Question will be covered from all units of prescribe syllabus)

Note: Question paper contains 100 questions and each question carries one mark

1. The order of an internal node in a B+ tree index is the maximum number of children it can have. Suppose that a child pointer takes 6 bytes, the search field value takes 14 bytes, and the block size is 512 bytes. What is the order of the internal node?

A) 24 B) 25 C) 26 D) 27

Answer : (C)

2. The Boolean function $x, y, + xy + x, y$

A) $x, + y,$ B) $x + y$ C) $x + y,$ D) $x, + y$

Answer : (D)

3. Consider the following C function:

```
int f (int n)
{ static int i = 1;
  if (n >= 5) return n;
  n = n + i;
  i ++;
  return f (n);
}
```

The value returned by f(1) is

A) 5 B) 6 C) 7 D) 8

Answer : (C)

4. The minimum number of page frames that must be allocated to a running process in a virtual memory environment is determined by

A) the instruction set architecture
B) page size
C) physical memory size
D) number of processes in memory

Answer : (D)

M. J. J.
23/01/2017 *NCJ*
CHAIRMAN
Board of Studies
Department of Computer Science
KAKATINA UNIVERSITY
WARRANGAL-508009 (T.S.)