HP Sample Paper

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Company : HP
Date :
College :

PART- 1 --> 40 q's (Fundamental computer Concepts, includes OS,N/w , protocols)
PART-2 --> 20 q's (Purely C)
PART-3 --> 20 q's (Analytical)

Q : What is not a part of OS ?
 O : swapper,compiler,device driver,file system.
 A : compiler.

 Q : what is the condition called when the CPU is busy swapping in and out pages of
    memory without doing any useful work ?
 O : Dining philosopher's problem,thrashing,racearound,option d
 A: thrashing.

 Q : How are the pages got into main memory from secondary memory?
    DMA, Interrupts,option3, option 4
 A : as far as i know its Interrupts --by raising a page fault exception.

Q : What is the use of Indexing ?
O : fast linear access, fast random access, sorting of records , option 4
A : find out....

Q : in terms of both space and time which sorting is effecient.(The question is
                                                    rephrased .)
O : merge sort, bubble sort, quick sort, option 4
A : find out

which case statement will be executed in the following code ?

```
main()
{
 int i =1;
 switch(i)
  {
      i++;
      case 1 : printf ("");
              break;
```

```
        case 2 : printf("");
                    break;
        default : printf("");
                    break;
    }
}
```

Answer : Case1 will only be executed.

Q : In the given structure how do you initialize the day feild?
    struct time {

        char * day ;
        int   * mon ;
        int   * year ;
         } * times;

Options : *(times).day, *(times->day), *times->*day.

Answer : *(times->day) -- after the execution of this statement compiler generates
            error.i didn't understand why.can anybody explain.

Q: The char has 1 byte boundary , short has 2 byte boundary, int has 4 byte boundary.
    what is the total no: of bytes consumed by the following structure:

  struct st {
  char a ;
  char b;
  short c ;
  int z[2] ;
  char d ;
  short f;
  int q ;
}