

## Technical Papers Java Questions: Veritas Test Paper 2003

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/\* Objective Questions: 30 questions \*/

Time duration: 30 minutes.

1. What is the output of the following operation?  $0 \times 7e00e9 \% 0 \times 7$
2. What does a sticky bit do and why?
3. /\* Question is how many processes are created when this program is run \*/

```
int main () {  
    forkthem (5);  
} void forkthem (int n) {  
    if (n>0) {  
        fork ();  
        forkthem (n - 1);  
    } else return; }  
/*
```
4. preorder and inorder was given, asked which of the options was postorder/\* Please complete \*/
5. Which of the following representations do not need braces or parenthesis
  - prefix, postfix & infix
6. Give the grammar- $E \rightarrow E * E \mid E + E \mid n$ , is it ambiguous? left recursive? none?
7. given the following code in two threads, what will be the range of possible values of n?/\*

```
First Thread */sum = 0; for (i = 1; i<5; i++) { sum++; }/*  
Secdond thread */sum = 0; for (j = 1; j<5; j++) { sum++; }  
/*
```
8. The regex in bourne shell to find all files except those starting with. And. The choices involved a lot of [! ] based regexes.
9. One question on
  - true hits & true misses
  - conflict misses
  - cache line ping pongon a SMP 2 processor machine.
10. You are logged in on a system. Somebody mounts a file system on/home.
  - a. Would you remain logged in?
  - b. You logout and you login back again. Would you be able to do that?

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11. Some question on sorting algorithms (?) which of the following algorithms is least dependent on the original ordering of the numbers: Bubble, insertion, merge & quicksort

12. Why recursion not possible in Fortran?

- a. No Stack structure
- b. No Dynamic Allocation etc etc

13. Some CFG is given and asked to choose the string accepted by this grammar.

14. /\* So far thats what we have recollected... \*/

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/\* Subjective Questions: 3. Each with 2/3 sub parts. \*/

Time duration: 20 + 5minutes extra.

1. Fill in the blanks: Part A/\* The following program aims to check whether “a” is a power of 2. Int power2 (int a) { int b; b = \_\_\_\_\_; if ( (a<sup>b</sup>) >>1 == b) return 1; else return 0; } Part B/\* Following is used to find if a 32-bit number is divisible by 3 \*/int div3 (int n) { int i; int sum = 0; for (i = 0; i<32; i + + ) { if (i & 1) sum + = n&i; else sum- = n&i; n>> = 1; } if (sum == 0) return sum; if (sum <0) sum = -sum; /\* changed. \*/if (sum <3) return sum; return \_\_\_\_\_; }
2. Following is used for mutual exclusion: Part A while (1) { while (\_\_\_\_\_); if (!test\_and\_set (lock) ) break; } Part B A program is given, and to say what it prints: Char \* p = “char \* p = %c%s%c; main () { printf (p, 34, p, 34); }” main () { printf (p, 34, p, 34); } Part C main () { printf ( “%d” f (8) ); } int f (int i) { return ( (--i>1)? f (i) -f (i - 1): 0); }
3. Find whether the following programs have any compilation errors?

Part A

```
#define SRP1 struct record *
```

```
typedef struct record * SRP2.
```

```
SRP1 p1, p2.
```

```
SRP2 p3, p4.
```

```
swap () { SRP2 temp1, temp2; temp1 = p1; p1 = p3; p3 = temp1; temp2 = p2; p2 = p4; p4 = temp2; }
```

Part B

```
#define EIGHT 08
```

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```
main () { int nine; char * string = "abcdefgh" nine = EIGHT; printf ( "%d" string[nine]); }
```