

QUIZ ON COMPUTER SCIENCE

Total points 20/20 ?

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Are you ? *

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- ☐ Industry Person
- ☐ Others

City *

Moodbidri

State *

Karnataka



Country *

India

✓ Q1. What is the output of the following program? *

1/1

```
#include<stdio.h>
main()
{
    printf("\");
}
```

☐ \

☐ \"

☐ "

☒ Compile error



✓ Q2. For the below definition what is the data type of 'PI' *

1/1

#define PI 3.141

- ☐ Its a float
- ☐ Its double
- ☒ There is no type associated with PI, as it's just a text substitution
- ☐ Syntax error, semi colon is missing with the definition of PI



✓ Q3. What is the built in library function to adjust the allocated dynamic memory size. *

1/1

- ☐ malloc
- ☐ calloc
- ☒ realloc



☐ resize

✓ Q4. What is the size of an int data type? *

1/1

- ☐ 4 Bytes
- ☐ 8 Bytes
- ☒ Depends on the system/compiler
- ☐ Cannot be determined



✓ Q5. What will be the output of the following C code? *

1/1

```
#include <stdio.h>
int main()
{
    signed char chr;
    chr = 128;
    printf("%d\n", chr);
    return 0;
}
```

- ☐ 128
- ☒ -128
- ☐ Depends on the compiler
- ☐ None of the mentioned



✓ Q6. To access the services of operating system, the interface is provided 1/1
by the _____ *

- ☒ System calls
- ☐ API
- ☐ Library
- ☐ Assembly instructions



✓ Q7. Which one of the following error will be handled by the operating 1/1
system? *

- ☐ Power failure
- ☐ Lack of paper in printer
- ☐ Connection failure in the network
- ☒ All of the mentioned



✓ Q8. Which of the following do not belong to queues for processes? * 1/1

- ☐ Job Queue
- ☒ PCB queue
- ☐ Device Queue
- ☐ Ready Queue



✓ Q9. A situation where several processes access and manipulate the same data concurrently and the outcome of the execution depends on the particular order in which access takes place is called _____ *

- ☐ Data consistency
- ☒ Race condition
- ☐ Aging
- ☐ Starvation



✓ Q10. With paging there is no _____ fragmentation. *

1/1

- ☐ Internal
- ☒ External
- ☐ Either type of
- ☐ None of the mentioned



✓ Q11. The ALU makes use of _____ to store the intermediate results. *

1/1

- ☒ Accumulators
- ☐ Registers
- ☐ Stack
- ☐ Heap



✓ Q12. _____ is generally used to increase the apparent size of physical memory. * 1/1

☐ Secondary memory

☒ Virtual memory

☐ Hard-disk

☐ Disks



✓ Q13. The computer architecture aimed at reducing the time of execution of instructions is _____ * 1/1

☐ CISC

☒ RISC

☐ ISA

☐ ANNA



✓ Q14. Which of the following is FALSE about arrays on Java. *

1/1

- ☐ A java array is always an object
- ☒ Length of array can be changed after creation of array
- ☐ Arrays in Java are always allocated on heap
- ☐ All the above



✓ Q15. What is the best case time complexity of linear search algorithm? * 1/1

- ☒ $O(1)$
- ☐ $O(n)$
- ☐ $O(\log n)$
- ☐ $O(n^2)$



✓ Q16. push() and pop() functions are found in *

1/1

- ☐ Queues
- ☐ Llists
- ☒ Stacks
- ☐ Trees



✓ Q17. Which of the following standard algorithms is not a Greedy algorithm? *

1/1

- ☐ Dijkstra's shortest path algorithm
- ☐ Prim's algorithm
- ☐ Kruskal algorithm
- ☒ Bellmen Ford Shortest path algorithm



✓ Q18. Which of the following algorithms is NOT a divide & conquer algorithm by nature? *

1/1

- ☐ Euclidean algorithm to compute the greatest common divisor
- ☒ Heap Sort
- ☐ Cooley-Tukey fast Fourier transform
- ☐ Quick Sort



✓ Q19. Which of the following is/are true about constructors in Java? *

1/1

1. Constructor name should be same as class name.
2. If you don't define a constructor for a class, Constructor name should be same as class name.
3. The default constructor calls `super()` and initializes all instance variables to default value like 0, null.
4. If we want to parent class constructor, it must be called in first line of constructor.

- ☐ 1
- ☐ 1, 2
- ☐ 1, 2 and 3
- ☒ 1, 2, 3 and 4



✓ Q20. Which of the following is not an operator in Java? *

1/1

- ☐ instanceof
- ☒ sizeof
- ☐ new
- ☐ >>>=



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