**INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, SRI CITY**

# Overview of Computer Workshop
# Scheduled Quiz - 1

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**Instructions:**                                                           **Roll No:_____**

1. All questions are compulsory.
2. Write the answers legibly.
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## Answer All Questions

1. The hexadecimal equivalent of binary 11011011 is <u>DB</u>

2. <u>Volatile/RAM</u>  memory loses its data when power is turned off.

3. The initial program that runs from ROM to initialize hardware and start the boot process is called the <u>Bootstrap Loader</u>

4. In memory hierarchy, the fastest and smallest memory is <u>Registers</u>

5. The register that stores the address of the next instruction is the <u>Program Counter</u>

6. The Linux command _____ is used to display the path of the current working directory. <u>pwd</u>

7. Suppose you have a file named data.txt containing the following lines:

   apple
   banana
   cherry
   apple pie

   Which Linux command will display only the lines that contain the word apple? <u>grep</u>

8. The _____ is the platform that allows a user to interact with Linux using a command line interface (CLI).

   a) File Manager     <u>b) Terminal</u>     c) Kernel     d) Text Editor

9. Suppose you have a file named example.txt with permissions rw-r--r--. You want to remove the write permission for the owner. Which Linux command will you use?

   a) chmod g-w example.txt     <u>b) chmod u-w example.txt</u>

   c) chmod u+w example.txt     d) chmod g+w example.txt

10. What will be the output of the following shell script?

```
#!/bin/sh

count=3

while [ $count -le 7 ]; do

  echo "Current count: $count"

  count=`expr $count + 2`

done
```

**Hint:** In Linux shell scripting, -le is a comparison operator meaning "less than or equal to," used in conditional expressions.
**Options:**
a) 3, 4, 5, 6, 7        b) 3, 5, 7        c) 3, 6        d) 3, 5, 6, 7

11. Address bus is unidirectional and carries the memory or I/O address.
12. A bootstrap loader is stored in
    a)  RAM        b) ROM        c) Cache        d) Register

13. The language used to query and manipulate data in DBMS is

    a) HTML        b) HTTP        c) SQL        d) XML

14.  Users who do not have DBMS knowledge but frequently use database applications in

    their daily life is called Naive/Parametric end users

15. The number of attributes or columns present in a table is called  Degree

16.  Address Bus is bidirectional.True  (True  or  False )

17.    Linker combines multiple object files into a single executable file?

18.  Select which one  is the first High Level programming language _____

    a) Fortran        b) C        c) Java        d) Python        e) C++        f) C#

19.  _____ triggers a transition from user mode to kernel mode in an operating system?

    a) Direct memory access by the user        b) Hardware failure

    c) System calls or interrupts                d) User process requests directly

20. Convert the Hex 2F to Octal equivalent 57