



# SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

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## V Semester – SCSA1501 – Operating Systems

### Assignment I

#### Fill in the Blanks:

- 1) The operating system is a type of \_\_\_\_\_ software.
- 2) \_\_\_\_\_ OS supports a program to run on more than one CPU at a time.
- 3) \_\_\_\_\_ provides interface between a process and the operating system.
- 4) The data structure used by computer operating systems to store all the information about the process is called \_\_\_\_\_.
- 5) \_\_\_\_\_ is a technique by which a device manager keeps the slower I/O devices busy when a process is not requiring I/O operations.

#### Short Questions:

- 1) List the services of system components in OS.
- 2) What is a virtual machine?
- 3) Explain the working principle of system call.
- 4) Explain the states in Process Life Cycle.
- 5) Explain buffering and its types.

#### Long Questions:

- 1) Explain the concept of thread and multithreading in detail.

#### Instructions:

- 1) Use A4 sheets for writing your assignments
- 2) Scan and send your assignment in any format preferably pdf and upload correct document
- 3) Save your assignment in file name (Register Number\_Name) eg: (39110018\_AARUSH)
- 4) For fill ups just write the answer alone