

13/11/2017

**Avinashilingam Institute for Home Science and Higher Education for Women
Coimbatore-641 043
Bachelor's Degree Examination – November 2017
III Semester**

**Class : II UG
Major : Information Technology**

**Time :3 hours
Max. Marks: 100**

15BITC09 Operating System

Part-A

10 x 1=10

Choose the correct answer

1. _____ is used to speed the accessing primary storage
a. Relocation register b. Storage inter learning c. Interrupts d. Polling
2. The part of machine level instruction, which tells the central processor what has to be done, is
a. Operation code b. Address c. Locator d. Flip-flop
3. The processes are _____ if they exits at the same time.
a. parallel b. concurrent c. static d. dynamic
4. A system program that combines the separately compiled modules of a program into a form suitable for execution is
a. Assembler b. link loader c. cross compiler d. load and go
5. A process is said to be in a stage of _____ if it is waiting for particular event that will not occur
a. semaphores b. block state c. dead lock d. critical section
6. Process is
a. Program in high level language b. Contents of main memory
c. A program in execution d. A job in secondary memory
7. The term _____ is normally associated with the ability to address a storage space much larger than that available in the primary storage .
a. primary b. paging c. virtual storage d. segmentation
8. The principle of locality of reference justifies the use of _____
a. reenterable b. non reusable c. virtual memory d. cache memory
9. A semaphore,
a. is a binary mutex b. must be accessed from only one process
c. can be accessed from multiple processes d. None of these
10. Resolution of externally defined symbol is performed by _____
a. Linker b. Loader c. Compiler d. Assembler

Part B

5 X 6=30

Answer the following

Answer should not exceed 400 words or two pages

- 11.a. Write short notes on operating system.
(or)
b. Write the differences between hardware and software.
- 12.a. Discuss about semaphores.
(or)
b. Explain about message passing.
- 13.a. Write short notes on deadlock detection.
(or)
b. Explain about indefinite postponement.
- 14.a. Discuss about the basic concepts of virtual storage.
(or)

