

V.P. & R.P.T.P. SCIENCE COLLEGE
S.Y. B.Sc (SEMESTER IV) INTERNAL EXAMINATION – March, 2019
US04CCSC02 [Operating System]

Date: 08-03-2019

Time: 3.00 P.M. to 5.00 P.M.

Max.Marks: 50

Q - 1 Multiple Choice Question:

[08]

- 1] The primary goal of an operating system is to make the computer system convenient to _____.
a) Use
b) Read
c) Read
d) Paste
- 2] A file is a collection of related information defined by its _____.
a) reader
b) user
c) creator
d) None+
- 3] A DMA module controls the exchange of data between _____ and an I/O module.
a) Main memory
b) Intermediate memory
c) secondary memory
d) None
- 4] The round-robin (RR) scheduling algorithm is designed especially for _____.
a) Time sharing systems
b) Multi user system
c) Time saving systems
d) None
- 5] The process of translating virtual addresses into real addresses is called _____.
a) Mapping
b) Moving
c) Mixing
d) None
- 6] An address generated by the CPU is commonly referred as _____.
a) Physical Address
b) Logical Address
c) Hiding Address
d) None
- 7] A producer process produces information that is consumed by a _____.
a) Consumer process
b) Virtual process
c) Indirect process
d) None
- 8] The _____ problem places no practical limit on the size the buffer.
a) unbounded-buffer producer- consumer
b) limited-buffer producer-consumer
c) bounded-buffer producer-consumer
d) None

Q - 2 Answer the following in short: (Attempt Any Five)

[10]

- 1] List the advantages of Distributed Operating System.
- 2] What is the function of Layer 1 in Layered Systems?
- 3] What is the function of program counter in PCB?
- 4] What is Dispatcher? What is dispatch latency?
- 5] What is Contiguous Memory Allocation?
- 6] What is Demand Paging?
- 7] What is Cooperating Processes?
- 8] What is process synchronization?



Q -3 Explain Process Management & Memory Management in brief.

[08]

OR

Q - 3 Explain in detail the Client-Server model.

[08]

Q - 4 Write a note on Priority Scheduling.

[08]

OR

Q - 4 Explain in brief the Process State and Transitions.

[08]

Q - 5 Discuss in brief the 'Address Bindings'.

[08]

OR

Q - 5 Explain in brief the 'Paging'.

[08]

Q - 6 Explain in brief the producer – consumer problem.

[08]

OR

Q - 6 Write short note on dead lock characterization.

[08]