

[72]

Sardar Patel University
External Examination
M.Sc. (Information Technology) Semester – I
PS01CINT05: Operating System Concepts
19th April, 2018 Thursday

Time: 02:00 PM to 05:00 PM

Max. Marks: 70

- Q-1** Choose the most appropriate option for each question. [08]
- (i) ___ system guarantees that critical task completes on time.
a) Hard real time b) Soft real time
c) Hard time sharing d) Soft time sharing
- (ii) The time for disk arm to move the heads to the cylinder
a) Seek Time b) Rotational Latency
c) Bandwidth d) Waiting Time
- (iii) A process under execution is said to be in the ___ state.
a) Ready b) Waiting
c) Running d) New
- (iv) The operating system starts in ___ mode.
a) User b) Kernel
c) Supervisor d) Both (b) and (c)
- (v) ___ is a solution of indefinite blocking problem.
a) Blocking b) Aging
c) Swapping d) Paging
- (vi) Which of the following operation cannot be performed on file?
a) Create b) Delete
c) Update d) None of these
- (vii) Which of the following is not a level of RAID?
a) 1 + 0 b) 0 + 1
c) 1 + 1 d) None of these
- (viii) Which of the following algorithm is solution to the critical section problem?
a) FIFO b) SJF
c) LRU d) None of these

- Q-2** Answer ANY SEVEN from the following [14]
- (i) What do you mean by the term "Interrupt"?
- (ii) What is a privileged instruction?
- (iii) Draw the diagram to represent PCB.
- (iv) Briefly explain the purpose of medium term scheduler.
- (v) What is monitor?
- (vi) Briefly explain compile time address binding.
- (vii) List various models of multithreading.
- (viii) List advantages of RAID.
- (ix) Briefly explain any two types of files by giving suitable example.

C.P.T.O.)

