

B.Sc. Semester III (General) Examination, 2018-19

COMPUTER SCIENCE

Course ID : 31518

Course Code : SPCSC-301C-1C(T)

Course Title : Operating Systems

Time: 1 Hour 15 Minutes

Full Marks: 25

The figures in the margin indicate full marks.

*Candidates are required to give their answers in their own words
as far as practicable.*

1. Answer *any five* questions: 1×5=5
 - (a) Name two popular operating systems.
 - (b) What is batch processing?
 - (c) What do you mean by time sharing?
 - (d) What is the function of Kernel of an operating system?
 - (e) What is process?
 - (f) What do you mean by turnaround time of a process?
 - (g) What do you mean by a file?
 - (h) What do you mean by the critical section of a process?

 2. Answer *any two* questions: 5×2=10
 - (a) Discuss, in brief, the different states in the life cycle of a process.
 - (b) Write a short note on paging technique.
 - (c) Write a short note on segmentation.
 - (d) Discuss pre-emptive and non-pre-emptive scheduling in brief.

 3. Answer *any one* question: 10×1=10
 - (a) Discuss various services provided by an operating system in brief.
 - (b) Explain any two CPV scheduling algorithms with suitable examples.
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