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

COMPUTER SCIENCE

Course ID : 31512   **Course Code : SHCSC-302C-6(T)**

Course Title : Operating System

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) What is Operating System?

    (b) What is Multiprogramming?

    (c) What is time sharing?

    (d) State the difference between kernel and shell of an operating system.

    (e) What is a process?

    (f) What do you mean by thread?

    (g) What is file?

    (h) What is virtual memory?

2. Answer *any two* questions: 5×2=10

    (a) Draw state/transition diagram for an ordinary process.

    (b) Write a short note on demand paging.

    (c) Describe segmentation in brief.

    (d) What do you mean by internal and external fragmentation?

3. Answer *any one* question: 10×1=10

    (a) Discuss various services provided by an operating system in brief.

    (b) Describe various conditions necessary for occurence of deadlock in brief.

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