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SF—07—2022

FACULTY OF COMPUTER STUDIES

B.Sc. (First Year) (Second Semester) EXAMINATION

MAY/JUNE, 2022

(CBCS/Revised Pattern)

COMPUTER SCIENCE

(Operating System)

(Thursday, 30-06-2022)

Time : 09.30 a.m. to 01.15 p.m.

Time— 3.45 Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if required.

1. Attempt any *five* of the following : 15
 - (a) Define Operating System.
 - (b) Explain Command Interpreter.
 - (c) Explain in detail PCB.
 - (d) What do you mean by Context Switching ?
 - (e) Explain fragmentation.
 - (f) Explain I/O traffic controller.
 - (g) Explain in detail system boot.
2. Attempt any *three* of the following : 15
 - (a) What operating system do as per user view ?
 - (b) Describe extended machine.
 - (c) Explain operating system as Resource Manager.
 - (d) Explain in detail multiprocessor system.

P.T.O.

3. Attempt any *three* of the following : 15
- (a) Explain in detail operating system services.
 - (b) Explain operating system interface.
 - (c) Explain in detail system calls.
 - (d) Explain types of system calls.
4. Attempt any *three* of the following : 15
- (a) Explain process states.
 - (b) Explain in detail process scheduling.
 - (c) Explain FCFS and SJF with diagram.
 - (d) Explain priority scheduling.
5. Attempt any *three* of the following : 15
- (a) Explain simple contiguous memory allocation.
 - (b) Explain in detail paging.
 - (c) Explain in detail segmentation.
 - (d) What is Memory ? Explain it in detail.