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BP—8A—2016

FACULTY OF COMPUTER STUDIES

B.Sc. (SE) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Old Course)

SOFTWARE ENGINEERING

Paper S1.2

(Operating System)

(Saturday, 19-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time— Three Hours

Maximum Marks—80

N.B. :— (i) Attempt All questions.

(ii) Assume suitable data, if necessary.

1. Attempt the following : 20

- (a) Explain in detail multiprogramming.
- (b) Explain in detail single contiguous memory management.
- (c) Explain the function of process management.
- (d) Explain dynamic partition specification.

2. (a) Explain Relocatable partition memory management technique. 8

(b) Explain in detail extended machine concept. 7

Or

(c) Explain in detail completely direct access devices. 8

(d) Explain in detail deadlock. 7

3. (a) Explain in detail context switching. 8

(b) Explain in brief page removal algorithms. 7

Or

(c) Explain the steps involved in processing READ request. 8

(d) Explain in detail I/O traffic controller. 7

P.T.O.

4. (a) Explain in detail process control block. 8
- (b) Explain in detail symbolic file system. 7
- Or*
- (c) Explain in detail the concept of multiple paths. 8
- (d) Discuss the advantages and disadvantages of demand paged memory management. 7
5. Write short notes on (any *three*) : 15
 - (a) Multitasking
 - (b) Best fit partition algorithm
 - (c) Function of information management
 - (d) Block multiplexing
 - (e) I/O scheduler.