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**BT—14—2016**

**FACULTY OF COMPUTER STUDIES**

**M.Sc. (Second Year) (Third Semester) EXAMINATION**

**OCTOBER/NOVEMBER, 2016**

**(CBCS Pattern)**

**SOFTWARE ENGINEERING**

**(Distributed Operating System)**

**(Monday, 21-11-2016)**

**Time : 2.00 p.m. to 5.00 p.m.**

*Time—3 Hours*

*Maximum Marks—75*

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

(ii) Each question carries equal marks.

(iii) Draw figures wherever necessary.

(iv) Figures to the right indicate full marks.

1. Attempt any *three* of the following : 15

(a) Explain ATM technology in detail.

(b) Explain LAN technologies.

(c) Explain threads.

(d) Explain design and implementation issues of DSM.

(e) Explain task assignment approach.

2. Attempt any *three* of the following : 15

(a) Explain mutual exclusion.

(b) Explain file catching symantics.

(c) Explain the replacement strategy.

(d) Explain wrokstation model.

P.T.O.

3. Attempt any *three* of the following : 15
- (a) Explain mult Datagram message.
  - (b) Explain communication protocols.
  - (c) Explain issues in designing a distributed operating system.
  - (d) Explain encoding and decoding of message data.
4. Attempt any *three* of the following : 15
- (a) Describe features of good global scheduling algorithm.
  - (b) Explain load sharing approach.
  - (c) Explain group communication.
  - (d) Explain distributed commuting system models.
5. Attempt any *three* of the following : 15
- (a) Explain process addressing.
  - (b) Explain fault tolerance.
  - (c) Explain load balancing approach.
  - (d) Explain WAN technologies.
  - (e) Explain casual consistency model.