

**C. ABDUL HAKEEM COLLEGE (AUTONOMOUS),**

**MELVISHARAM - 632 509.**

**SEMESTER EXAMINATIONS, NOVEMBER - 2018**

**B.Sc., COMPUTER SCIENCE**

**SEMESTER V**

**U15ECS501 / U14ECS501 – OPERATING SYSTEM (ELECTIVE - I)**

Time: Three Hours

Maximum: 75 Marks

**SECTION - A (10 X 2 = 20 Marks)**

**Answer ALL Questions.**

1. Define process.
2. What are the main advantages of multiprocessor systems?
3. Define thrashing.
4. Name any four common file types.
5. Differentiate between WAN and LAN.
6. What is token passing?
7. What is domain?
8. Define firewall.
9. Write the use of export command.
10. What is awk?

**SECTION - B (5 X 5 = 25 Marks)**

**Answer ALL Questions.**

11. a) What are the categories of system programs? Explain.  
(Or)  
b) Write a note on cooperating process.
12. a) How to prevent deadlock? Explain.

(Or)

b) Discuss the importance of dynamic loading and linking in memory management.

13. a) Discuss the types of distributed operating system.

(Or)

b) Write a note on timestamping.

14. a) Write a note on user authentication.

(Or)

b) Explain the components of module support in Linux.

15. a) Write a note on set command in shell script.

(Or)

b) Explain (i) script (ii) exec command.

**SECTION - C (3 X 10 = 30 Marks)**

**Answer ANY THREE Questions.**

16. Discuss dual mode operation and CPU protection.
17. Explain any two page replacement algorithms.
18. Explain RAID structure in detail.
19. Discuss in detail about intrusion detection.
20. Explain the control structures in shell programming.

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