

CLASS: MCA

15A / 238

St. JOSEPH'S COLLEGE (AUTONOMOUS) TIRUCHIRAPPALLI – 620 002

SEMESTER EXAMINATIONS – APRIL 2015

TIME: 2 Hrs. 20 min.

MAXIMUM MARKS: 70

SEM	SET	PAPER CODE	TITLE OF THE PAPER
II	2014	14PCA2112	OPERATING SYSTEMS

SECTION – B

Answer all the questions:

5 x 5= 25

31. a. Describe the services provided by an Operating System.

OR

b. Explain the various categories of system programs.

32. a. Explain the criteria to be considered in measuring the performance of a scheduling algorithm.

OR

b. What are the conditions for Dead lock to occur?

33. a. Explain the variable partitioned allocation scheme with an example.

OR

b. What is Belady's anomaly? Explain with an example.

34. a. Explain the operations that can be performed on files.

OR

b. Explain the linked allocation technique for allocating disk space to files.

35. a. Explain the schemes for implementing revocation for capabilities.

OR

- b. Explain the ways to provide authentication.

SECTION – C

Answer any THREE questions:

3 x 15 = 45

36. Explain how the various hardware is protected by the operating system.
37. Explain any five process scheduling algorithms.
38. Describe any three page replacement algorithms.
39. Explain with examples, the various disk scheduling algorithms.
40. Elaborate on the implementation of Access Matrix.
