

**Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College of Commerce and Economics
Farmagudi, Ponda-Goa.**

**B.C.A. (SEMESTER - II) EXAMINATION, APRIL 2012
OPERATING SYSTEM CONCEPTS**

Marks : 50

Duration : 2 hours

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| I. | 1. Explain Process States with the help of a diagram. | (5 mks) |
| | 2. Explain Resource Allocation Graph with a Deadlock, along with a diagram. | (5 mks) |
| II. | 1. Explain Mutual Exclusion. | (2 mks) |
| | 2. Explain Segmentation. | (3 mks) |
| | 3. Explain Hash Page Table with a diagram. | (5 mks) |
| III. | 1. Explain Main Memory. | (2 mks) |
| | 2. Explain Demand Paging. | (3 mks) |
| | 3. Explain Circular-SCAN (C-SCAN) with a diagram. | (5 mks) |
| IV. | 1. Explain Operating System Structure. | (2 mks) |
| | 2. Explain File Sharing in a File System. | (3 mks) |
| | 3. Explain the types of Program Threats. | (5 mks) |
| V. | 1. Explain that the Operating System is a Resource Allocator. | (2 mks) |
| | 2. Explain the advantages of Web based Operating Systems. | (3 mks) |
| | 3. Explain Data Migration and Process Migration in Distributed Operating Systems. | (5 mks) |
