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| | Total No. of Pages : 02 |
| Total No. of Questions : 07 | |
| BCA (Sem4) | |
| OPERATING SYSTEMS | |
| Subject Code : UGCA-1923 | |
| M.Code:79727 Date of Examination:13-12-2022 | |
| | |
| Time : 3 Hrs. | Max. Marks:60 |
| INSTRUCTIONS TO CANDIDATES : | |
| 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks | |
| each. | |
| 2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions. | |
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| SECTION-A | |
| 1. Write briefly : | X • |
| | 0 |
| a) Differentiate between Kernel and Shell. | |
| | |
| b) What are the advantages of layered structure over mor | nolithic structure? |
| c) What is meant by the 'state of the process'? | |
| d) Define Semaphore | |
| u) Denne Sennaphorae | |
| e) What are Pages and Frames? | |
| f) What is a Race Condition? | |
| g) What is the use of Valid-Invalid Bits in Paging? | |

- h) What are the various File Operations?
- i) What is the significance of Device Drivers?
- j) What are the characteristics of a Real Time Operating System?

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SECTION - B

- 2. Explain Operating System functions and services in detail.
- 3. State dining philosopher's problem and give a solution using semaphores. Write structure of philosopher.
- 4. Write about the various CPU scheduling algorithms by taking suitable examples.
- 5. Explain how paging supports virtual memory. With neat diagram explain how logical address is translated into physical address.
- a) What is Directory? Explain directory operation in details. 6.
 - b) Write a note on I/O device controllers.
- inmediation suithand 7. Discuss the case study on Linux operating system.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

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