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| |  |  | | --- | --- | | **Pragnya education trust’s** | | | **Pragnya college of management & computer studies,** | | | **Handewadi, Pune-411060** | | | **Examination(2019-2020)** | | | **BBA (CA) -- Semester: IV** | | |  | | **Sub: Networking Marks :30M Time : 1hour**    **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | |  | |
| **All question carry equal mark attempt any three questions**   1. Explain Physical Addresses, Logical Addresses & Port Addresses? 2. Explain Electromagnetic Spectrum for Wireless Communication? 3. Explain Network Connectivity Devices- Active and Passive Hubs, Repeaters,Switches, Router & Gateways? 4. Explain the concept of firewall? Write about Packet Filter firewall, Proxy firewall?   **Sub: Object Oriented Concepts Through CPP Marks :30M Time : 1hour \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** |

**All question carry equal mark attempt any three** **questions**

1. Explain the concept of Polymorphism?
2. Write code for: Create a class Person. Add members as PersonId, FirstName, LastName,DOB, Address. Write function to add, edit & delete a person?
3. Explain the concept of operator overloading with proper examples?
4. Explain the need of a file? Explain File operations - Opening, Closing and updating?

**Sub:** **Operating System Marks :30M Time : 1hour**

**All questions carry equal mark attempt any three questions**

1. 1 Explain Process Synchronization? Write about Critical section problem?
2. Explain basic concept Segmentation? Write about demand paging?
3. Explain about Process Creation & Process Termination?
4. Write about Deadlock & Deadlock handling techniques?

**Sub:**  **NODE JS Marks :30M Time : 1hour**

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**All questions carry equal mark attempt any three questions**

1. Explain what is event ? Explain EventEmitter class & Returning event emitter?
2. Explain the Fs.readFile, Writing a File, Writing a file asynchronously, Opening a file and Deleting a file?
3. Explain the process of Installing & updating packages?
4. Explain the process to connect to database in detail ? Explain basic insert, update, Delete operations with database?

**Sub:**  **Advanced PHP Marks :30M Time : 1hour**

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**All questions carry equal mark attempt any three questions**

1. Explain concepts of classes, objects & introspection in PHP?
2. Explain what is XML? Explain XML document structure?
3. Write about java scripts for AJAX?
4. Explain requirement of web services? Explain basic operational model of web services?