**Pragnya Education Trust’s**

**Pragnya college of management & computer studies,**

**Handewadi, Pune-411060,**

**Assignment(2021-2021)**

**Class: B.B.A (CA) Semester IV**

**Sub: Networking**

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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**

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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?

1. Explain the concept of operator overloading with proper examples?
2. Explain the need of a file? Explain File operations - Opening, Closing and updating?

**Sub: Operating System**

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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**

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**

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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?