Perchy math Chartenite Garett (Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai) (Religious Jain Minority)

Subject: SPA

GP HOV-DEC 2017 (@P: 24644)

- 910 Explain the need of layered design for communication & networking, compare the OSI reference model & TCPIIP.
- The first computer nemoorks were designed with the hardware as the main concern & the slo as an afterthought. This strategy no shonger works. Hework surmare is now highly structured. To reduce their design complexity, most newborks are organized as a stack of layers or levels, each one buil upon the one below it.

The number of layers, the name of each layer, the contents of each layer, & function of each loyer differ from now to now. The purpose of each layer is to offer certain services to the higher layers while hiding those layers from the details of how the offered services are actually implemented. In a sense, each layer is a kind of virtual machine, offering certain services to the layer above it. Example: Given below is layer nework. When layer n on one machine carries on a conversation with layer n on another machine, the rules i conversations used in this conversation are collectively known as layer n. protocol

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