

**Bharati Vidyapeeth**  
**(Deemed to be University), Pune**  
**School of Distance Education**

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<b>Assignment No.</b>	<b>01</b>	<b>Name of the Assignment Setter:</b>	<b>Dr. Mukund Kulkarni</b>		
<b>Course:</b>	<b>MCA</b>	<b>Class:</b>	<b>II</b>	<b>Semester:</b>	<b>III</b>

<b>Subject:</b>	<b>Computer Networks</b>
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**Q.1)** Attempt **ANY ONE** of the Following (**1000 Words**) **(10)**

1. Describe TCP/IP reference model in computer communication network.
2. What is routing? Explain working mechanisms and Hierarchical and Multicast Routing.

**Q.2)** Attempt **ANY TWO** of the Following (**800 Words**) **(12)**

- a) Concept of 7G Networks
- b) Explain shortest path Routing algorithm in detail.
- c) Transmission median and its characteristics.
- d) Explain Congestion Control Algorithms

**Q.3)** Write Short Notes on (**ANY TWO**) **(08)**

- a) Sub-Netting
- b) Mobile Ad-hoc networks
- c) Domain Network Services
- d) Synchronous and Asynchronous Transmission.

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