Roll No. Total No. of Questions : 08]

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M.Tech. (Sem. - 1^{st}) NETWORK SECURITY **SUBJECT CODE : CS - 503 Paper ID : [E0683]**

[Note : Please fill subject code and paper ID on OMR]

Time: 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- Attempt any Five questions. 1)

Q1) Define the following terms and explain each of them.
(a) Adhoc networks
(b) Transport Layer.
(c) Port

- (d) Comparison between TCP/IP and OSI model.
- Q2) Privacy of personnel documents and transactions is major area of concern in all the applications. How digital Signatures and digital certificates help in reducing the privacy concerns. How these technologies work. Take an example to make your case
- Q3) (a) Define and differentiate between Repeater, Bridge, Router and Gateway.

(b) Discuss Tunneling, Agent Discovery and Name servers in detail.

- Q4) Differentiate Between.
 - protocols between High speed LANs and protocols between wireless (a) LANs.
 - (b) Gigabit Ethernet and wireless Ethernet.

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- Mobility in the nodes creates a lot of issues in the network under **Q5**) (a) consideration. List various issues caused by mobility of nodes. How the problems can be overcome.
 - How the security problems are tackled in mobile networks. Discuss recent (b) developments for increasing the security of mobile applications.
- Q6) How TCP/IP has evolved. Give the historical background. What are the TCP extensions for high speed networks? How TCP/IP has been restructured for latest applications. Use proper diagrams and examples.
- (07) Discuss the following in relation to Ipv6
 - (a)
 - (b) Auto configuration.
- (c)
 - (d)

08) Write detailed note on the following

- SSL (a)
- ADSL. (b)
- Authentication heade (c)
- Mobile Ip (d) MMM.

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