

**B.Tech Sem – VIII (2007 Course) (Inf. Tech.) : WINTER -
2017**

SUBJECT : ELECTIVE – II: NET CENTRIC COMPUTING

Day : **Wednesday**
Date : **22/11/2017**

Time : **02.30 PM TO 05.30 PM**
Max. Marks : **80**

W-2017-2688

N.B.:

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to both the sections should be written in the **SEPARATE** answer books.
- 3) Draw neat diagrams **WHEREVER** necessary.
- 4) Figures to the right indicate **FULL** marks.
- 5) Assume suitable data if necessary.

SECTION – I

- Q.1** a) Explain Client Server Architecture. [05]
b) Define Throughput and Utilization with reference to Estimating model parameters. [05]
c) Explain Sharma's Algorithm in detail. [04]
- Q.2** a) State advantages and disadvantages of TCP/IP protocols. [06]
b) Explain CSMA and compare it with CSMA/CD. [07]
- Q.3** a) Explain issues related with optimizing network performance in brief. [06]
b) Show graphical representation of modeling network. [07]
- Q.4** a) Explain ESAU – William's Algorithm in detail. [06]
b) Explain Unified Algorithm in detail. [07]

SECTION – II

- Q.5** a) Explain ATM in brief. [05]
b) Explain Run-Length encoding. [05]
c) Explain SCSI protocol in brief. [04]
- Q.6** a) Explain SONFET/SDH Network. [06]
b) Explain the process of switching and routing in optical domain. [07]
- Q.7** a) Discuss about string matching algorithm. [06]
b) Explain security application in e-commerce and banking. [07]
- Q.8** a) Discuss network attached software model. [06]
b) Explain the various architectures and management of network attached storage. [07]

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