

Hall Ticket No:

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Question Paper Code: 14MCA114

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA III Year I Semester (R14) Supplementary End Semester Examinations – June 2018

(Regulations: R14)

NETWORK PROGRAMMING

Time: 3Hrs

Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.

In Q.no 1 to 5 answer either Part-A or B only

- Q.1(A) i) Explain the architecture of Unix with a neat diagram. 6M
ii) Write a short notes on relationships that exist between processes. 6M

OR

- Q.1(B) i) Summarize the steps, how a C program is started and the various ways it can terminate. 6M
ii) Explain briefly about inter-process communication. 6M

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- Q.2(A) i) Explain in detail about how socket address structure is defined in IPv4 6M
ii) Elaborate on the socket functions required to write a complete TCP/IP Client Server. 6M

OR

- Q.2(B) i) List and explain two groups of address conversion functions. 6M
ii) Write short notes on Iterative server. 6M

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- Q.3(A) Explain in brief about TCP echo server with a program 12M

OR

- Q.3(B) i) Explain the steps involved in Crashing and rebooting of s server. 6M
ii) Enumerate the features of Posix signal Handling. 6M

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- Q.4(A) i) Explain in brief about getsockopt and setsockopt functions that apply to sockets. 6M
ii) List and explain the various Generic socket options. 6M

OR

- Q.4(B) i) With a neat diagram explain the socket functions required for UDP client/server. 8M
ii) List and explain the two socket options for TCP. 4M

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- Q.5(A) Explain in brief about interoperability between IPV4 and IPV6. 12M

OR

- Q.5(B) i) With an example explain the process of thread creation and termination in Unix. 8M
ii) Explain the steps involved in creating a raw socket. 4M

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