

ADVANCED UNIX PROGRAMMING

(Common to IT, CS&T and CS&E)

Time: 3 Hours

Max. Marks: 60

*Answer any FIVE Questions
All Questions Carry Equal Marks*

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| 1. | a | Differentiate between TCP and UDP. | 6M |
| | b | Explain about OSI model. | 6M |
| 2. | | Write a TCP client server program for echo message | 12M |
| 3. | a | Explain about bind with an example. | 6M |
| | b | Explain TCP client – server interaction using sockets. | 6M |
| 4. | a | Discuss about IPV6 socket option. | 6M |
| | b | What are the uses of getsockopt and setsockopt system calls? Discuss. | 6M |
| 5. | a | Discuss about signal handling server process termination. | 6M |
| | b | Explain about DNS | 6M |
| 6. | a | Describe the role of port numbers with respect to sockets. | 6M |
| | b | Discuss about ICMPV6 socket option. | 6M |
| 7. | | Write a client server program for echo message using FIFO's. | 12M |
| 8. | a | Give brief description about the name space. | 6M |
| | b | Demonstrate IPC between processes on different systems. | 6M |

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