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BR—502—2016

FACULTY OF COMPUTER SCIENCE

M.Sc. (First Year) (Second Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(CBCS Pattern)

COMPUTER SCIENCE

Paper CS-205

(Elective—III)

(Network Programming)

(Saturday, 26-11-2016)

Time : 10.00 a.m. to 1.00 p.m.

Time—Three Hours

Maximum Marks—75

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Draw diagram wherever necessary.

1. Attempt the following (any *three*) : 15
 - (a) Explain protocol independence in detail.
 - (b) Explain wrapper functions in detail.
 - (c) Explain socket address structures in detail.
 - (d) Explain select function with example.
 - (e) Explain TCP echo server.
2. Answer the following (any *three*) : 15
 - (a) Explain byte manipulation functions.
 - (b) Explain readn and writen functions.
 - (c) Explain normal startup and normal termination.
 - (d) Explain SIGPIPE signal in detail.
3. Solve the following (any *three*) : 15
 - (a) Explain crashing and rebooting of server.
 - (b) Explain str-cli function with example.
 - (c) Explain termination of server process.
 - (d) Explain getsockname and getpeername functions.

P.T.O.

4. Answer the following (any *three*) : 15
- (a) Explain getsockopt and setsockopt functions.
 - (b) Explain IPv6 socket options.
 - (c) Explain generic socket options.
 - (d) Explain shutdown of server host.
5. Write short notes on (any *three*) : 15
- (a) Simple daytime client
 - (b) Concurrent servers
 - (c) I/O models
 - (d) ICMPv6 socket
 - (e) Connection abort before accept return.