



MW-879-003-007405

Seat No. _____

M.C.A. (Sem. - IV) Examination

May/June - 2012

ECA4015 : Advanced Networking

Faculty Code : 003

Subject Code : 007405

Time : Hours]

[Total Marks : 70

1 Answer the following Multiple Choice Questions : 15

- (1) What is the Class C public address range ?
(A) 169.254.x.x
(B) ocsetup
(C) 0.0.0.0-127.255.255.254
(D) 192.168.x.x
- (2) Convert the 192.168.1.21 to bit format
(A) 11000000.10101000.00000001.00010101
(B) 11000000.10101001.00000001.00010101
(C) 11000000.10101000.10000001.00010101
(D) None
- (3) Default subnet mask for class B is :
(A) 255.0.0.0 (B) 255.255.0.0
(C) 255.255.255.0 (D) None
- (4) Max # of hosts in class B is
(A) 255 (B) 255*255
(C) 255*255*255 (D) None
- (5) You have a class A network address 10.0.0.0 with 40 subnets, but are required to add 60 new subnets very soon. You would like to still allow for the largest possible number of host IDs per subnet. Which subnet mask should you assign ?
(A) 255.240.0.0 (B) 255.248.0.0
(C) 255.252.0.0 (D) 255.254.0.0
- (6) What is the default subnet mask for a class C network ?
(A) 127.0.0.1 (B) 255.0.0.0
(C) 255.255.0.0 (D) 255.255.255.0
- (7) You are working with a network that is 172.16.0.0 and would like to support 600 hosts per subnet. What subnet mask should you use ?
(A) 255.255.252.0 (B) 255.255.248.0
(C) 255.255.240.0 (D) 255.255.224.0

- (8) What is TCP port number of FTP
 (A) 20 (B) 21
 (C) 22 (D) 23
- (9) What is the function of bind ()
 (A) Name the socket (B) Bind the socket
 (C) (A) and (B) (D) None
- (10) recvfrom () function is for
 (A) TCP server (B) UDP server
 (C) Both (A) and (B) (D) None
- (11) What is the return type of socket (int family, int type, int protocol);
 (A) Int (B) Socket
 (C) Char (D) None
- (12) Which function is used by client
 (A) accept () (B) listen ()
 (C) Connect () (D) None
- (13) Data Arrival is an event of winsock control
 (A) True (B) False
 (C) Can't say (D) None
- (14) Which socket was defined first
 (A) Win socket (B) Unix socket
 (C) Both (D) None
- (15) For Building Client Server Applications we require
 (A) Socket (B) Server
 (C) Client (D) All of the above

2 Attempt any **five** of the following : 15

- (i) What is a socket ?
 (ii) Explain Port Address.
 (iii) Explain peer to peer data communications.
 (iv) List and explain various IP classes.
 (v) Explain Use Of Winsock Control.
 (vi) What are the public IP addresses ?

3 Attempt any **three** of the following : 15

- (i) Explain Byte Manipulation Functions.
 (ii) What is Address Transformation ? explain.
 (iii) Explain connect and listen Socket System Calls.
 (iv) List and explain any three properties of winsock control.

- 4 Attempt any **two** of the following : 15
- (i) Differentiate Stream Sockets with Datagram Sockets.
 - (ii) Explain Network Byte Order translation functions with suitable example.
 - (iii) List various functions for TCP and UDP network socket transmission
- 5 Attempt any **one** of the following : 10
- (i) Write a note on Connectionless - Connection Oriented C/S Interface.
 - (ii) Write a program for simple socket program which will send "Hello" to server.
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