

DCHN-04

December - Examination 2015

DCHN Examination**Fundamental of Computer Networking****Paper - DCHN-04****Time : 3 Hours]****[Max. Marks :- 100**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

Section - A

10 x 2 = 20

(Very Short Answer Questions)

Note: Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to 30 words. Each question carries 2 marks.

- 1) (i) What is the purpose of networking?
- (ii) Give the at least two examples of WAN.
- (iii) List out layers of ISO-OSI reference model.
- (iv) Define gateway.
- (v) What do you mean by VSAT?
- (vi) What is Ethernet?

- (vii) Define the meaning of Internet Protocol.
- (viii) Which command is used to check the IP Address of your system?
- (ix) What is User Datagram Protocol?
- (x) What is the purpose of a firewall in networking?

Section - B

4 x 10 = 40

(Short Answer Questions)

Note: Answer any four questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) What is difference between physical and logical topology?
- 3) Describe different types networks.
- 4) What is presentation layer and how it is responsible for in the OSI model?
- 5) What is MAC address?
- 6) Explain subnet and subnet mask.
- 7) What is a DNS resource record?
- 8) What is the difference between router and gateway?
- 9) Discuss the various needs of network security.

Section - C

2 x 20 = 40

(Long Answer Questions)

- Note:** Answer any two questions. You have to delimit your each answer maximum up to 500 words. Each question carries 20 marks.
- 10) Explain various wireless transmission modes along with their advantages and disadvantages.
 - 11) What are the differences between static IP addressing and dynamic IP addressing?
 - 12) Explain the routing concept with appropriate example.
 - 13) Write short note on:
 - (i) IPv6
 - (ii) Web Server
 - (iii) VPN
 - (iv) ADSL
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