

00426

ADIT/BIT PROGRAMME

Term-End Examination

December, 2010

CSI-09 : COMMUNICATION TECHNOLOGY

Time : 3 hours

Maximum Marks : 75

Note : There are two sections in this paper. Section - A is compulsory and consists of 10 objective type questions and descriptive questions. Section - B consists of 4 questions from which you have to answer any three questions.

SECTION-A

1. (a) There are 10 objective type questions in this section. There are four choices given for each question. Select the best choice as your answer. If you feel that none of the given choices are correct, then mark '0' as your answer. Attempt all the questions. Each question carries one mark. 10x1=10
- (i) In which type of communication the information is transmitted as a series of discrete bits.
- (A) Analog
(B) Digital
(C) Terrestrial
(D) None

- (ii) _____ are used where the network is being locally (talking physical location) segmented.
- (A) Remote bridges
 - (B) Local bridges
 - (C) Translation bridges
 - (D) None
- (iii) A low cost computing device that works in a server centric computing model which typically do not require state of art, powerful processors and large amounts of RAM or ROM as they access applications from a central server.
- (A) Host
 - (B) Gateway
 - (C) Switch
 - (D) Thin client
- (iv) A well planned network will be :
- (A) more reliable and lower in cost
 - (B) more flexible
 - (C) simple to support and use
 - (D) All of the above
- (v) TAMU consists of :
- (A) TIGER to check the intrusion on the file system.
 - (B) NETLOG monitors and looks for intrusions over the network.
 - (C) DRAWBRIDGE does high level filtering of remote access.
 - (D) All of the above.

- (vi) Repeaters are _____ layer devices.
- (A) Network
 - (B) Transport
 - (C) Physical
 - (D) Application
- (vii) Preventing unauthorized disclosure and use of information w.r.t. information security is called as :
- (A) confidentiality
 - (B) integrity
 - (C) availability
 - (D) none
- (viii) Personnel training and transformation of operational procedures comes under _____ costs of networking.
- (A) indirect
 - (B) direct
 - (C) miscellaneous
 - (D) none
- (ix) Hubs operate at the _____ layer of OSI model.
- (A) Network
 - (B) Physical
 - (C) Presentation
 - (D) Application

- (x) EFT stands for :
- (A) Electronic Fund Transfer
 - (B) Electronic Finance Transfer
 - (C) Electronic File Transfer
 - (D) Electronic Frames Transfer
- (b) Write the differences between the Base band Communication and Broad band Communication. What kind of communication is employed in ISDN ? Explain the various ISDN services and mention their advantages. 10
- (c) Explain the following WAN protocols : 10
- (i) X.25
 - (ii) Frame Relay

SECTION - B

Attempt any three questions from this section (numbered 2 to 5).

2. With reference to any *E-Commerce website (of any type)*, explain the following issues : 15
- (i) Features of the website regarding the products and the services.
 - (ii) Transaction mechanism
 - (iii) Secured electronic payments
 - (iv) Confirmation and shipment
3. (a) What is fault tolerance ? Explain RAID - 0, 1, 2 and 3 levels mentioning their merits, demerits and applications. 8
- (b) Discuss the various costs involved in a Network Implementation. 7
4. Explain the following protocols : 15
- (i) SSL
 - (ii) SHEN
 - (iii) SHTTP
5. What is OSI/RM (Reference Model) ? Explain the functions of all the layers of it and also compare with TCP/IP reference model. 15
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