

AMIETE – ET/CS/IT (NEW SCHEME)

Time: 3 Hours

DECEMBER 2011

Max. Marks: 100

NOTE: There are 9 Questions in all.

- Please write your Roll No. at the space provided on each page immediately after receiving the Question Paper.
- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 Minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

Q.1 Choose the correct or the best alternative in the following: (2×10)

- a. Which of the following is not a type of network?
- (A) Intranet (B) Ad Hoc network
(C) Extranet (D) Simple network
- b. Which of the following characteristics of a carrier signal is changed to load information on it?
- (A) Phase (B) SNR
(C) Signal strength (D) Bandwidth
- c. Which of the following is not a transmission media in a wire line network?
- (A) Co-axial cable (B) Twisted pair
(C) Optical Fiber (D) Microwave
- d. The Multiple access of a transmission media is NOT achieved through
- (A) FDM (B) CDMA
(C) TDM (D) ADM
- e. In PCM quantization level 16 is represented by _____ bits.
- (A) 8 (B) 5
(C) 4 (D) 16
- f. Which of the following is mail transfer protocol?
- (A) SMTP (B) PEM
(C) MIME (D) PGP

- Q.7** a. What is the role of transmission media in communication network? Give three examples of transmission media used in LAN? (8)
- b. Explain the architecture of WLAN. (8)
- Q.8** a. Discuss IPv6 protocol and its structure. (8)
- b. Briefly explain the principles of Internetworking. (8)
- Q.9** Write short notes on **TWO** of the followings:
- (i) SMTP
 - (ii) TCP/IP
 - (iii) DNS operation. (8+8)