

V.V.M's Shree Damodar College Of Commerce & Economics , Margao Goa
End Semester Examination , April 2017

Computer Networks (BCA -402)

Duration : 2hours

Max Marks : 50

Instructions : All questions are compulsory

Figures to the right indicate full marks

Q.1 Answer the following

(2X 5= 10 Marks)

- a) What is Jitter ? Give an appropriate example to illustrate the meaning of jitter .
- b) What is half duplex mode of communication . Give an example .
- c) How do you find star topology different from mesh topology ?
- d) What is connectionless service ? Give an example of protocol that works on this principle.
- e) What is routing ? Give example of routing algorithm .

Q.2 Answer the following

(10 marks)

1. What is an OSI model ? How does it help in understanding the computer communication ? 2
2. Given data as 1 1 0 1 0 0 1 1 0 1 . Draw Manchester and differential Manchester waveform representing above data . 3
3. Write short note on the following Protocols a) DNS b) HTTP 5

Q.3 Answer the following

(10 marks)

1. What are the reasons for implementing flow control mechanism in communication ? 2
2. Explain how selective repeat ARQ overcomes the problems of Go back n ARQ . 3
3. $G(x) = x^3 + x^2 + 1$, Data : 11001110 . Use CRC to send the data and verify the same at receiver's end. 5

Q.4 Answer the following

(10 marks)

1. Given : IP 210.87.192.72. Find out the Class id , Host id , default mask & Class. 2
2. Explain the working of RARP protocol. 3
3. Draw & Explain the TCP frame format. 5

Q.5 Answer the following :

(10 marks)

1. What are the functions of transport layer ? 2
2. Explain the different supervisory frames of HDLC. 3
3. Give five points of differences between TCP /IP and UDP 5

*****BEST OF LUCK*****