

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
Parul Institute of Computer Application
BCA 2018-19 Mid Semester Examination

Semester: 3rd

Subject Code: 05101202/05301202

Subject Name: Data Communication and Computer Networks

Date: 06/09/2018

Time: 10:00 -12:00

Total Marks: 40

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Answer the following. [10]

- (a) 1) What is Port address? [3]
2) What is subnet mask?
3) What is IP address?

- (b) 1) The 32 bits IP address consists of [7]
A) Network portion C) Host portion
B) Both (a) and (b) D) None of the above

- 2) Which is example of Specific address?
A) 120.10.1.1 C) www.google.com
B) AH:34:11:00:AA:BB D) 1024

3) IP address is _____ Bit long.

- 4) Which of the following is error correction method?
A) Parity Check
B) Checksum
C) CRC
D) Hamming Code

5) MAC address is of 6 octets. Each octet is separated by _____.

- 6) IP stands for
A) Internet protocol C) Intern Protocol
B) Intermediate Protocol D) Insert Protocol

- 7) Port number of DNS?
A) 23 C) 53
B) 25 D) 80

Q.2 Answer the following. [10]

- (a) 1) What is router? What is routing table? [4]
2) Write default subnet mask for class A, class B, class C.

- (b) 1) Explain UDP protocol with its header format. [6]
2) Comparison: ipv4 and ipv6.

Q.3 Attempt any TWO. [10]

- 1 Explain CRC error detection technique with example. [5]
2 Explain Hamming Code error correction technique with example. [5]
3 Explain Classfull IP address in detail. [5]

Q.4 Answer the following. [10]

- (a) Define Computer Network. Classify Computer Network based on Transmission Technology. [5]
Discuss any of the Transmission Technology in detail.
(b) Explain OSI reference model. [5]

OR

- (b) What is TCP? Explain its header format with Diagram. [5]