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BCA-503(N)

B. C. A. (Fifth Semester) EXAMINATION, Dec., 2013

(New Course)

Paper Third

COMPUTER NETWORK

Time: Three Hours]

[Maximum Marks: 75

Note: Section A is compulsory. Attempt any seven questions from Section B and any one question from Section C.

Section - A

(Numerical/Analytical/Problematic Questions)

1. Fill in the blanks:

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- metworks consist of many connections between individual pairs of machines.
- (ii) service is modeled after the telephone system.
- (iii) The oldest and still most common transmission medium is
- (iv) Transport layer does not guarantee delivery of
- (v) is the number of bits transmitted or sent in one second.
- (vi) of wires will reduce the effect of external interface.

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- MAN is a bigger version of a LAN
- 1 Broadcast networks cannot be divided into dynamic allocation,
- 8 The transmission medium decides the highest value of bit rate,
- 3 The transport layer is not responsible for segmentation.
- 3 The redundancy checking techniques is based on binary multiplication.
- Define the following:
- Congestion in network layer.

Gateways,

Link access procedures.

(Short Answer Type Questions) Section-B 6 cach

- Explain OSI model in detail.
- disadvantages. Define all types of network topology with advantages and
- bandwidth 3000 Hz and S/N ratio of 30 dB. Calculate the maximum bit rate for a channel having
- Explain the types of transmission impairments
- techniques. Write advantages and disadvantages of all switching
- Write the differences between WDM, TDM and FDM

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- 11. Write design issues of network layers,
- 12. Given a 10 bit sequence frame : 1011101101 and a divisor (polynomials) of 1101. Find the CRC.
- 13. Write the name and explain network connecting devices.

Section - C

(Long Answer Type Questions)

- 14. (a) Discuss different types of transmission media in detail.
- Write the functions of session layers.

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- 15. (a) Write the functions of presentation layer.
- Write the name and explain techniques for achieving good QOS

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