



BRAINWARE UNIVERSITY

Term End Examination 2023 Programme – B.Tech.(CSE)-2018/B.Tech.(CSE)-2019/B.Tech.(CSE)-2020 Course Name – Computer Networks Course Code - PCC-CS602 (Semester VI)

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Brainware University
Barasat, Kolkata -700125

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

own words as far as practicable.] **Group-A** (Multiple Choice Type Question) 1 x 15=15 1. Choose the correct alternative from the following: (i) Predict Which of the following has the highest bandwidth capacity? a) Coaxial cable b) Twisted pair cable c) Fiber-optic cable d) Wireless communication (ii) Observe Which of the following transmission media is the most resistant to interference? a) Coaxial cable b) Twisted pair cable c) Fiber-optic cable d) Microwaves (iii) Show Which of the following is a characteristic of block coding? a) Increases the number of bits transmitted b) Increases the speed of transmission d) Does not affect the number of bits Decreases the number of bits transmitted transmitted (iv) Define Hamming distance? a) The distance between two nodes in a b) The number of errors that can be network corrected by a code c) The number of errors that can be detected d) The number of bits that are different between two code words by a code (v) Recite Which of the following is NOT a parameter of the leaky bucket algorithm? a) Bucket size b) Output rate c) Input rate d) Token rate (vi) Choose Which of the following is NOT a parameter of the token bucket algorithm?

(vii) Identify Which of the following is a characteristic of a Gateway?

a) It can only be used in wired networks

c) It can connect different types of networks

b) Token rate

d) Output rate

network

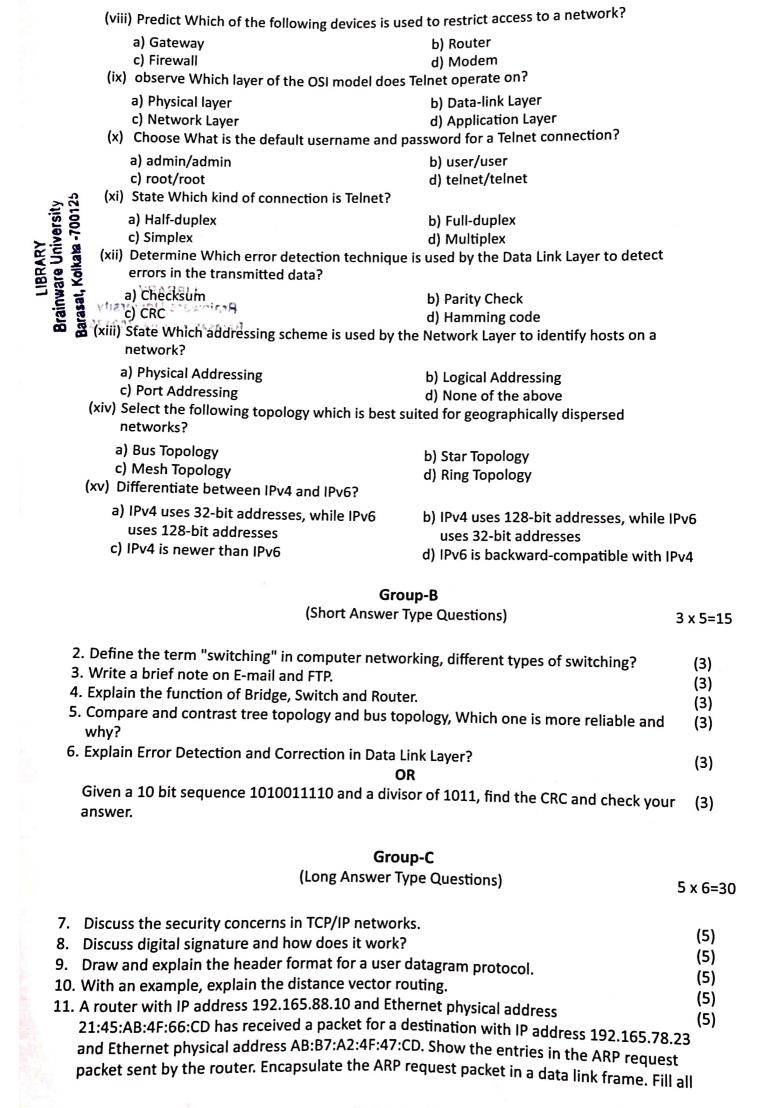
network

b) It can only connect devices within a

d) It can only route traffic within the same

a) Bucket size

c) Input rate



the fields.

12. A company is granted the site the address 192.168.100.0, the company needs 10 subnets. Design the subnets (which include subnet mask, number of subnets, number of hosts in each subnet, first and last address of each subnet).

OR

Justify the importance of DNS in application layer.

(5)

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