

Primeasia University

a mission with a vision

Department of Computer Science and Engineering (CSE)

Mid Term Examination, Fall Semester, 2020

Course No. : CSE 411

Full Marks: 20

Course Title: Computer Network

Time: 50 mins

Answer all the Questions. Figures in the right-hand margin indicate full marks.

1. Suppose, Primeasia University has two campuses situated in Banani which is 2.58km distance apart from each other. If we want to establish a network between these two campuses, how could we do this? Explain your opinion briefly. 2
2. Web caching can reduce the delay in receiving a requested object. Will the web caching reduce the delay for all objects requested by a user or for only some of the objects? Explain your opinion clearly. 2
3. In this pandemic situation, online shopping and delivery is a common phenomenon. Suppose, a delivery man wants to deliver a product from Dhanmondi to Banani. The distance between Dhanmondi and Banani is 11km and the delivery man can be propagated this product at 120km/hr. If the ratio of the distance and the propagation speed is two third of the time the product will take to Banani, then what will be the transmission time of that product? 3
4. Suppose in P2P communication, a new peer Rachel joins in the communication without processing any chunks. Rachel cannot become a top-four uploader since she has nothing to upload. How then she will get her first chunk? Explain. 3
5. "POP3 is stateless but IMAP is stateful"- Explain with example. 2
6. To establish a server-browser connection, two types of connections are used- persistent and non-persistent. If we are using non-persistent connection between server and browser, is it possible to carry two distinct HTTP request messages through a single TCP segment? 3

7. Determine whether the following statements are True/False, if False give the correct statement: 3

- a) TTL is used in DNS to indicate how much time it will live in DNS cache.
- b) HTTP, SMTP, FTP all are protocol suite.
- c) Fast Ethernet Twisted pair cable can transfer data upto 100 mbps.

8. Fill up the blanks with suitable words: 2

- a) Window size 3:1 means _____.
- b) Port no _____ uses both TCP and UDP connections.