Parvatibai Chowgule College of Arts and Science
Autonomous
B.Voc. Semester End Examination, January/February 2022

Semester: III
Subject: Software Development
Title: Skill Based Component - Computer Networks
Duration: 1 Hours   Max. Marks: 25

Instructions: 1. All questions are compulsory
2. Figures to the right indicate full marks.

Q.1. Answer <u>ANY THEE</u> of the following.   (3 * 3 = 9)
A. Explain how routing algorithms are classified as Adaptive and non adaptive.
B. Differentiate between persistent and non persistent CSMA
C. Discuss IPV6 protocol in brief
D. Discuss services offered by the data link layer to the network layer.

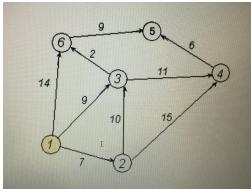**Q.2. Answer <u>ANY TWO</u> of the following.**   (4 * 2 = 8)
A. With respect to the protocols used at the Data Link Layer explain the following.
    1. Stop and wait protocol
    2. Sliding Window Protocol
B. Explain the concept of Framing, laying emphasis on the methods used.
C. Discuss any three address mapping protocols in detail.

Q.3. Answer <u>ANY TWO</u> of the following.   (4 * 2 = 8)
A. With respect to the OSI model discuss
    1. Physical Layer
    2. Session Layer
B. Discuss TCP Segment header in detail.
C. Using Link State Routing Algorithm prepare routing tables for all the nodes in the following graph.

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