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The Assam Royal Global University, Guwahati

Royal School of Information Technology

MCA, 2nd Semester

Semester End Examination, June 2023

Course Title : Advanced Computer Networks

Course Code : CAP054C201

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) 2 x 8
- Draw a figure to represent the full duplex communication.
 - Compare LAN and WLAN.
 - Discuss very briefly about transmission media.
 - Write two advantages of star topology.
 - How does Hub differ from Switch?
 - Give two differences between bus topology and ring topology.
 - How does optical fibre better than others?
 - Write the names of last two layers of TCI/IP.

Section – B

2. Attempt **any two** of the following: 6 x 2
- Discuss on Data Link Control Protocols.
 - Explain different types of errors in DLL.
 - Discuss on sliding window protocols.
3. Attempt **any two** of the following: 7 x 2
- Explain OSI model with diagram.
 - Explain CRC with example.
 - Explain Stop-and-wait protocol with an example.
4. Attempt **any two** of the following: 7 x 2
- Explain the functions of Data Link Layer.
 - Explain Multiple Access Control Protocols.
 - Differentiate between IPv4 and IPv6.
5. Attempt **any two** of the following: 7 x 2
- Explain the working of E-Mail.
 - Explain User Datagram Protocol.
 - Explain the working of DNS.