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**GIET UNIVERSITY, GUNUPUR – 765022**  
M.C.A(Third Semester) Examinations, December' 2020  
**MCA302 – Computer Networks**  
**(M.C.A)**

Time: 2 hrs

Maximum: 50 Marks

**(The figures in the right hand margin indicate marks.)**

Q.1. Answer **ALL** the questions (2 x 10 = 20)

- What is protocol? What are the elements of protocol?
- What are the functions of physical layer of IEEE 802 reference model?
- Differentiate Fast Ethernet and Gigabyte Ethernet
- Define FDDI
- What is the main difference between TCP & UDP?
- Give the features of SSL.
- What is DDoS attack?
- Name the functions of Telnet
- What is the flow control in data link layer?
- State the difference between circuit switching and packet switching

**PART – B (6 x 5=30 Marks)**

Answer ANY FIVE questions

Marks

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| 2. Explain in detail about FIFO.  | (6) |
| 3. Explain the different types of HDLC frames.  | (6) |
| 4. How does token ring work?  | (6) |
| 5. Define routing. Explain the different types of routing algorithm in detail.          | (6) |
| 6. Explain the process of Adaptive Retransmission in detail.                            | (6) |
| 7. Explain in detail about the working principles of Simple Network Management Protocol | (6) |
| 8. Explain the various security measures used to protect the networks.                  | (6) |
| 9. Describe about BGP Routing.  | (6) |

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