Roll No

MCADD-402

M.C.A. (Integrated), IV Semester

Examination, November 2019

Foundation of Computer Networks

Time: Three Hours

Maximum Marks: 70

- Note: i) Attempt any five questions.
 - ii) All questions carry equal marks.
- 1. a) Explain OSI reference model.
 - b) Discuss the advantages of star, ring and Bus topology.
 - 2. a) What are the advantages of twisted pair? Explain shielded and unshielded twisted pair.
 - b) What are the characteristics of Optical fibre?
- 3. a) What are the responsibilities of medium access control sublayer?
 - b) Explain ALOHA and its types.
- 4. a) What is the function of Data Link layer?
 - b) Explain sliding window protocol. How do you measure a window for sliding window protocol?
- 5. a) Explain point to point network protocol.
 - b) What is Routing table? How does it work?

6.	Explain the following internet working devices.			
	i)	Repeaters	ii)	Bridges
	iii)	Modem	iv)	Gateways
	v)	Switches	vi)	Hubs

- What is leaky bucket algorithm? Where it is used? 7. a).
 - What is UDP? How it is different from TCP? b)
- 8. Write short notes on any three:
 - Electronic mail i)
 - ii) **TCP**

- iii) Data compression techniques
- Congestion
- v) Link state routing