

**3<sup>rd</sup> Internal Test of MSc (CS/IT) 2022**

**Subject: Data Communication and Computer Networks**

**Marks: 30**

**Time: 1hr**

1. Briefly explain about Domain Name System (DNS). 5
2. What is Classless Inter Domain Routing (CIDR)? What are the rules for forming CIDR blocks?  
Check whether 100.1.2.32 to 100.1.2.47 is a valid IP block or not. 1+2+2=5
3. What are ARP and RARP? 5
4. What are the service primitives of transport layer? 5
5. Briefly explain about Transmission Control Protocol (TCP). 5
6. Briefly explain about TCP connection establishment process. 5

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