

**R20**

**Code No: 872AC**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**MCA II Semester Examinations, October/November - 2022**

**COMPUTER NETWORKS**

**Time: 3 Hours**

**Max.Marks:75**

**Answer any five questions  
All questions carry equal marks**

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- 1.a) Explain the OSI reference model.
- b) Write a note on wireless transmission. [8+7]
- 2.a) Explain about Fibre optics.
- b) What is ARPANET? Explain. [7+8]
3. Explain the simplex stop-and-wait protocol for noisy channel in detail. [15]
4. Explain the collision free protocols. [15]
- 5.a) Explain the Distance vector routing algorithm.
- b) Discuss about Broadcast and multicast. [8+7]
- 6.a) Explain the Leaky bucket congestion control algorithm.
- b) Compare IPV4 with IPV6. [8+7]
7. Explain the elements of the transport protocols. [15]
- 8.a) Explain the WWW.
- b) What is SNMP? [7+8]

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