Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY ME SEMESTER II EXAMINATION – SUMMER 2017

Subject Code: 2720509 Date: 31/05/2017 **Subject Name: Computer Networks** Time:02:30 PM to 05:00 PM **Total Marks: 70 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 0.1 **(a)** Explain various hardware used in networking. 07 (b) Compare OSI model with TCP/IP model layer by layer. 07 Enlist error correction techniques and explain one of them. **Q.2** 07 (a) Explain a protocol Using Go Back N strategy using pipelining. 07 **(b)** OR (b) Explain shortest path routing algorithm with example. 07 Q.3 **(a)** Enlist various access protocols and explain one of them. 07 Explain slotted ALOHA. 07 **(b)** OR Q.3 Explain MAC sub layer in data link layer 07 **(a)** Enlist IEEE Standards for different types of networks **(b)** 07 **O.4** Compare TCP with UDP. 07 **(a)** Explain leaky bucket algorithm with example. **(b)** 07 OR Explain architecture of world wide web. 07 **Q.4 (a)** State differences between distance vector & link state routing algorithm. 07 **(b) Q.5** (a) Explain IPv6 addressing. 07 Write short note on: DNS (b) 07 OR 07 Q.5 (a) Explain IPv4 addressing. (**b**) Write short note on: BGP 07
