M. TECH DEGREE EXAMINATION
MODEL QUESTION PAPER - I
First Semester
Branch: Information Technology
Specialization: Network Engineering

MITNE 106-4   NETWORKING IN EMBEDDED SYSTEMS

(Regular - 2013 Admission Onwards)

Time: Three hours   Maximum: 100 Marks

1.a. Give short note on Embedded Networking   (5 marks)

   b. Explain RS 232 standard.   (20 marks)

OR

2.a. Explain ISA/PCI Bus protocols   (15 marks)

   b. Explain about Inter Integrated Circuits   (10 marks)

3.a. Explain in detail about USB bus   (25 marks)

OR

4.a. Give a short note on CAN bus.   (5 marks)

   b. Differentiate between bit stuffing and Nominal bit stuffing   (10 marks)

   c. Explain about pic microcontroller CAN interface.   (10 marks)

5.a. Explain about how messages are exchanged using TCP and UDP   (15 marks)

   b. Give a brief idea about how devices and network can be kept secure   (10 marks)

OR

6.a. Give short notes on the hardware options such as cable, connections and network

   speed.   (10 marks)

   b. Explain about how the serving web pages respond to user input.   (8 marks)
   c. Explain about how the serving web pages deal with dynamic data. (7 marks)

7.a. Explain any one energy efficient and robust routing protocol   (15 marks)

   b. Explain the applications of wireless sensor networks   (10 marks)

OR

8.a. Discuss about SMAC protocol   (15 marks)

   b. Explain any one data centric routing protocol   (10 marks)