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Total Number of Pages: 1

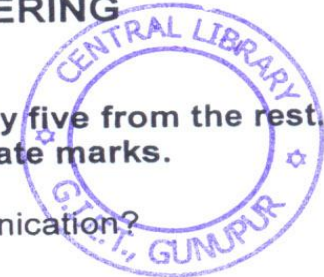
M.TECH
CMPC103

1st Semester Regular/Back Examination – 2014
DATA COMMUNICATION IN CAD / CAM
BRANCH(S): CAD / CAM ENGINEERING

Time: 3 Hours

Max Marks: 70

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.



Q1 Answer the following questions:

(2x10)

- a) What is the role of assembly language in data communication?
- b) What is an internet tool?
- c) What are the features of Pentium Processors?
- d) What are the functions of UNIX & WINDOWS NT in operating system environment?
- e) What is the role of an assembler in digital computer and micro processors?
- f) What is base band interface standards RS232C, RS449 interface?
- g) What are the OSI reference model services?
- h) What is net working in manufacturing?
- i) What do you mean by cousins of compiler?
- j) What is network file system?

- Q2 a) What is the role of network standardization in computer networks? Explain briefly with suitable example. (5)
- b) Neatly draw and explain in detail the block diagrams of 80 x 86 and describe the modes of operation. (5)
- Q3 a) What is I/O and interrupt design of basic computer? Explain. (5)
- b) Explain the term FTP – IRC – www – Telnet in detail. (5)
- Q4 a) Explain the data transmission concept clearly with neat sketch and suitable example wherever required. Also describe the terminology associated with data transmission. (6)
- b) Why the machine cycle and timing diagram are required? Explain briefly. (4)
- Q5 a) How the compiler construction tools work?. Explain properly. (5)
- b) How communication model is classified? Explain the wireless transmission in detail. (5)
- Q6 a) Illustrate the Network structure & network architecture. Provide clear sketch and examples wherever required. (5)
- b) How the network standardization can be done. Define. (5)
- Q7 a) How to write the instruction code in digital computers & micro processors? Write down the steps for coding (5)
- b) How the analysis of the Source program is defined and what are the phases of a compiler. (5)
- Q8 a) What do you mean by asynchronous and synchronous communication? Explain in detail. (5)
- b) What is the function of data encoding in communication model? Explain briefly. (5)