

2009

Time: 3 Hours

Full Marks: 75

Candidate is required to give their answers in their own words as far as practicable.

Answer any **Five** questions.



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Question no.1 is compulsory Answer any five

All Questions have equal marks.

Q.1 What do you understand by terms simplex, duplex and half-duplex? Explain giving suitable example.

Q.2 Describe the OSI reference model of networking.

[1]

[Turn-over]

Q.3 Define Internet. What is the future of internet in the Indian business scenario?

Q.4 Explain the concept of email. Describe the process of sending and receiving the message in detail through E-mail.

Q.5 Explain De Morgan theorem. What are the different logic gates used in the Boolean algebra? Draw the symbols.

Q.6 What is significance of K-maps? Draw and explain half-adder.

Q.7 Explain why documentation is needed? What are the different methods of analyzing a program requirement?

Q.8 What are the special features of c programming language? State the differences between conditional and bitwise operator giving suitable example.

Q.9 What is preprocessor directive? Explain any five preprocessor commands used in 'c' language with syntax.

Q.10 Write short notes on three of the following

- a) Packet switching
- b) Portal and URL
- c) Encoder and decoder
- d) Data flow diagram
- e) File handling function

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[2]

[Continued]