

2007

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.

Question no.1 is compulsory

All Questions have equal marks.

Q.1 Explain the function of different OSI Layer.

vQ.2 Briefly explain the Micro-wave and satellite communication.

[1]

[Turn-over]

- Q.3. State and Prove the De'morgan theorem.
- Q4. Draw out the Half-Adder circuit diagram & truth table , also write the Boolean expression.
- Q5. Explain how does E-mail works and describe the mail protocols.
- Q6. Describe the evaluation of internet and write the application at the internet.
- Q7. Draw the TCP/IP protocol model and explain the function of the different layers.
- Q8. Write the different features of structured programming.

[2]

[Continued]

- Q9. Draw the Data flow diagram of any simple problem and explain the symbol used in data flow diagram.

10. Write short notes on three of the following:-

- (a) Twisted and Co-axial wire
- (b) Message and packet switching.
- (c) Encoder and decoder.

[3]

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