

2007

Internal Assessment Examination

Time : 1 hr

Full Marks : 20

Candidates are required to give their answers in their own words as far as practicable. The questions are of equal value.

Answer **Any one** questions from each group

Group-A

Q(1). Find out the sum of product of given function

$$f(A,BC,D)=\sum (0,1,2,4,5,7,11,13,14).$$

Q(2). Describe the Equivalence Relation With a suitable

Example.

Group-B

Q(1). Find the Automation for Regular Expression

$$a.(a+b)^*.b.b.(a+b)$$

Q(2). Prove that $L=\{0^i 1^j \mid i \geq j\}$ is a regular or not.