

END TERM / SEMESTER EXAMINATION, 2018-19
MCA (SEM. / TERM-03)
MCA 120 : MATHEMATICAL FOUNDATION OF COMPUTER SCIENCE

Time : 3 Hrs.

Maximum Marks : 100

Note : 1. Attempt **All** sections.
 2. Marks are indicated against each section.

SECTION - A

Q.1 Answer **ANY FIVE** questions of the following: **(5×4=20)**

- (i) Write the application of Arden's theorem.
- (ii) Let $S = \{1, 2, 3\}$ and $A = P(S)$. Draw the Hasse diagram of the poset A with partial order.
- (iii) Write any three applications of Minimized DFA.
- (iv) What are the quantifiers?
- (v) Prove that every subgroup is cyclic.
- (vi) Define the following:
 - (a) Power set
 - (b) Proper subset
- (vii) Define Modulo n .

SECTION - B

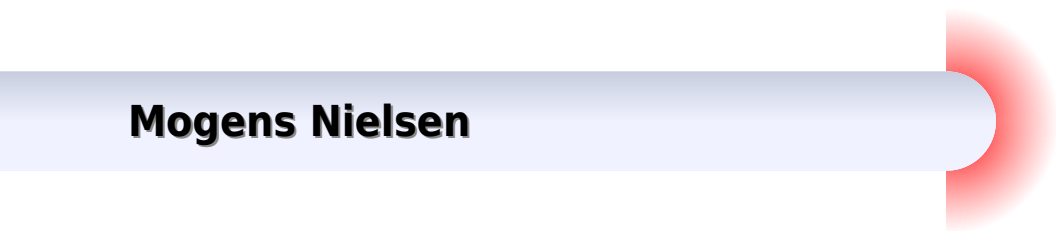
Q.2 Answer **ANY FIVE** questions of the following: **(5×4=20)**

- (i) Show that the hypothesis "if you do not send me an e-mail message, then I will finish writing the program", "if you do not send me an e-mail message, then I will wake up feeling refreshed" lead to the conclusion "If I do not finish writing the program, then I will wake up feeling refreshed".
- (ii) Design FA that accept set of string such that every string ends in 00 over alphabet $\{0,1\}$.
- (iii) Write the properties for multiplicative binary operation on $G * G$.
- (iv) Explain various limitations of finite automata.
- (v) Draw the graph of each of the following functions:

(a) $y = 3x^2$	(b) $y = -x^2$
(c) $y = x^2 - 2$	(d) $y = 5 - x^2$
(e) $y = 2x^2 + 1$	(f) $y = 1 - 2x^2$

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