

# **MATHEMATICS & STATISTICS (40)** **(ARTS & SCIENCE) PAPER - I**

Time : 2 Hrs.

(4 Pages)

Max. Marks : 40

- Note :**
- (i) All questions are compulsory.
  - (ii) Figures to the right indicate full marks.
  - (iii) Graph paper is not necessary for L. P. P.
  - (iv) Answer to every new question must be written on a new page.

**Q. 1. (A) Attempt any TWO of the following :**

[8]

- (i) Write the following switching circuit in symbolic form of Logic.



(3)

- (ii) Prepare the truth table for the following statement pattern

$$(p \vee \neg q) \rightarrow (r \wedge p)$$

(3)

- (iii) Write down the negations of the following :

- (a) If the diagonals of a parallelogram are perpendicular then it is a rhombus.
- (b) Kanchanganga is in India and Everest is in Nepal.
- (c) The Sun is a star or the Jupiter is a planet.

(3)

# Hsc Board Maths Question Paper 2012

**H Kauffman**



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