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Subject Code—952

M.C.A. (First Year) EXAMINATION

(5 Years Integrated Course)

MCA-103

MATHEMATICS—I

Time : 3 Hours

Maximum Marks : 100

Note : Attempt any *Five* questions. All questions carry equal marks.

1. (a) Solve the equation :

$$x^2 - 6x + 9 = 4\sqrt{x^2 - 6x + 6}$$

(b) State at least five properties of determinants.

(c) Solve by Cramer's rule :

$$x - y + 2z = 3$$

$$x + 2y + 3z = 5$$

$$3x - 4y - 5z = -13$$

P.T.O.