B. Tech Degree VII Semester Examination, November 2008

IT/CS/EC/EB 705 (A) DIGITAL IMAGE PROCESSING (1999 Scheme)

| Time: 3 Hou | urs Maximum Marks: 1 | 100 |
|-----------------------|--|-------------------|
| I. (a) (b) (c) | Differentiate between image restoration and image enhancement. | 10) (5) (5) |
| II. (a) (b) (c) | Define Kronecker product of two matrices. Mention four properties of Kronecker products. Define: (i) Block matrices (ii) Toeplitz matrices (iii) Circulant matrices (iv) Block Toeplitz and Block Circulant matrices. | (5) (5) |
| III. (a) | · · | 10) 10) |
| | OR | |
| IV. (a) (b) | Describe monochrome vision model. | 10) 10) |
| V. (a) (b) | | 10) 10) |
| VI. (a) (b) | Generate the Hadamard transform matrix of order 3. | 10) 10) |
| VII. (a) | the contract of the contract o | (10) (10) |
| • | OR | |
| VIII. (a) (b) | | 10) 10) |
| IX. (a) (b) | Explain different types of gradient operators. Explain the principle of computer vision. OR | 12) (8) |
| X. (a) (b) | | 10) |
| , | N.A | 10) |

