

**B.Tech. COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination

December, 2013

BICS-024 : DIGITAL IMAGE PROCESSING

Time : 3 hours

Maximum Marks : 70

Note : Answer any seven questions. All questions carry equal marks.

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1. Explain elements of visual perception. 10
 2. Briefly explain histogram processing. 10
 3. Explain about correspondance between filtering in spatial and frequency domain. 10
 4. Discuss the following :
 - (a) Frequency domain filters. 5
 - (b) Gaussian highpass filters. 5
 5. Explain band reject filters and band pass filters. 10
 6. Explain color slicing and color complements. 10
 7. Write a short notes on :
 - (a) Convex Hull 5
 - (b) Thickening 5

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| 8. | Explain any two morphological algorithms. | 10 |
| 9. | Explain Mapping and Stereo imaging. | 10 |
| 10. | Briefly explain : | |
| | (a) Region Extraction | 5 |
| | (b) Pixel-Based Approach | 5 |
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