## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

## TEST-2 EXAMINATION OCTOBER 2018 Nitin Kr.

B.Tech VII<sup>th</sup> Semester

COURSE CODE: 10B1WCI737	MAX. MARKS: 25
COURSE NAME: IMAGE PROCESSING TECHNIQUES	
COURSE CREDITS: 03	MAX. TIME: 1.5 Hrs
Note: All questions are compulsory. Carrying of mobile phone during e	examinations will be treated
as case of unfair means.	
1) a) How many different shades of gray are there in a color RGB sys	
image is an 8-bit image?	[2]
<ul> <li>b) Discuss the various color models used for representing color im</li> <li>2) Write a short note on the following:</li> <li>a) Region-Based Segmentation</li> <li>b) Thresholding</li> <li>c) Canny edge detector</li> </ul>	ages? [3]
	[2*3]
3) a) Explain the effect of aliasing in digital images.	[2]
b) Discuss the various image smoothing filters in frequency domain	in with their applications.
	[3]
4) a) Explain the various filters used for the restoration of images in p	presence of noise? [3]
b) Differentiate between the concept of image enhancement and in	nage restoration with an
example in detail.	[2]
5) What segmentation procedure you will use to segment apples pass so that the segments can be used to classify it into one of the apple	
so that the segments can be used to classify it into one of the apple	[4]