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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST-1 EXAMINATION- SEPTEMBER -2018

B.Tech VII Semester

COURSE CODE: 18B1WEC734

MAX. MARKS: 15

COURSE NAME: Medical Image Processing

COURSE CREDITS: 3

MAX. TIME: 1 HRS

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

All questions belong to CO1.

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1. Explain the need of Image Processing (categorized into three domain). [3]
 2. Write a brief note on the following:
 - (a) Spatial Resolution
 - (b) Intensity Resolution
 - (c) Grayscale Images and RGB Images[1+1+1=3]
 3. What do you understand by point processing of images and image processing in spatial domain. [2]
 4. Explain and draw a plot between the input pixel intensities and output pixel intensities for the following transformations on images.
 - (a) Negative Transformation
 - (b) Logarithm Transformation
 - (c) nth Power Transformation[2+2+2=6]
 5. Explain and write the syntax of the following MATLAB functions:
 - (a) imread
 - (b) figure[1]