14SSP51B

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018
(Ninth Semester)

Branch-**SOFTWARE SYSTEMS**
(Five year integrated)

CORE ELECTIVE - HI - DIGITAL IMAGE PROCESSING

Time: Three Hours Maximum: 75 Marks

SECTION -A (30 Marks)

Answer **ALL** questions
ALL questions carry **EQUAL** Marks (5 x 6 = 30)

1 a Explain about imaging in the visible and infrared bands.

OR

b Illustrate the components of an image processing system.

2 a Enumerate the representation of digital images.

OR

b Discuss histogram equalization in detail.

3 a Explain some importance noise probability density functions.

OR

b Write a short note on : Mean Filters.

4 a Elucidate about color slicing in detail.

OR

b Discuss about the Haar Transform.

5 a Describe about bit-plane coding.

OR

b Discuss about wavelet coding.

SECTION -B (45 Marks)

Answer any **THREE** questions
ALL questions carry **EQUAL** Marks (3 x 1 5 = 45)

6 Explain about fundamental steps in image processing.

7 Discuss briefly about smoothing spatial filters.

8 Explain the following :
(i) Ideal Low Pass Filter (7)
(ii) Gaussian Low Pass Filter (8)

9 Enumerate about pseudo color image processing.

10 Summarize about edge detection.

Z-Z-Z END