



Philadelphia University
Faculty of IT

Marking Scheme

Quiz Paper

BSc CE

Digital Image Processing (0750474)

Second Quiz

Second semester

Date: 16/04/2012

Section 1

Weighting 5% of the module total

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Digital Image Processing (0750474)

Marking Assignments

Question 1 This question is attributed with 5 marks if answered properly; the answer is the following:

```
function g = ImageAdjust (f)
[M N]= size(f);
if strcmp(class(f), 'double')
    g = zeros(M,N);
    Bottom =0;
    Top = 1;
elseif strcmp(class(f), 'uint8')
    g = uint8(zeros(M,N));
    Bottom =0;
    Top = 255;
elseif strcmp(class(f), 'uint16')
    g = uint16(zeros(M,N));
    Bottom =0;
    Top = 65535;
else
    error('The class of the image is not supported by IPT');
end
L = min(f(:));
H = max(f(:));
for x =1:M
    for y= 1:N
        g(x,y)=uint8(Bottom + ((f(x,y)-L)/(H-L))*(Top - Bottom));
    end
end
```

(2.5 marks)

(1 mark)

(1.5 mark)