

## APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

## **Scheme for Valuation/Answer Key**

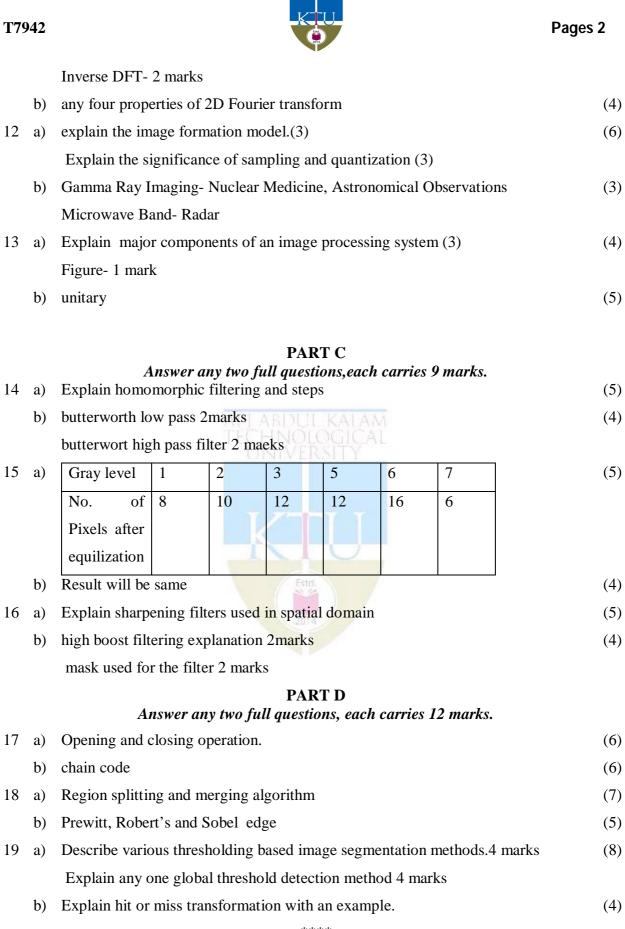
Scheme of evaluation (marks in brackets) and answers of problems/key

## SEVENTH SEMESTER B.TECH DEGREE EXAMINATION, DECEMBER 2018

**Course Code: CS463** 

Course Name: DIGITAL IMAGE PROCESSING

Max. Marks: 100 Duration:	3 Hours
PART A Answer all questions, each carries 4 marks.	Marks
1 Explain Moire patters and aliasing	(4)
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3 Energy compaction	(4)
4 Explain	(4)
a) Logarithmic Transformation 2 marks	
b) Power Law 2 marks	
5 Explain ideal low pass 2 mark	(4)
high pass filter 2 marks	
6 order statistic filter – Mean mode median, min and max	(4)
Explanation for 1) Line edge 2) Ramp edge 2 marks each	(4)
8 Explain Adaptive thresholding - dividing image into blocks and separat	e (4)
thresholding for each block adaptively-	
Global Thresholding- threshold applied for entire image	
9 Definition	(4)
i)Closing 2 marks	
ii)Opening 2 marks	
10 Explain Fourier Descriptor	(4)
PART B  Answer any two full questions, each carries 9 marks.	
11 a) Transform matrix- 1 mark	(5)
Forward DFT- 2 marks	(3)
1 of ward DITI- 2 marks	



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