

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**TEST-2 EXAMINATION- April -2018**

**M.Tech II Semester**

COURSE CODE: 10M11CI214

MAX. MARKS: 25

COURSE NAME: Multimedia Systems

COURSE CREDITS: 03

MAX. TIME: 1:30 HRS

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

**Ques 1 [ 2 + 5 = 7 Marks]** List the merits and demerits of block truncation coding (BTC) with suitable example . Apply block truncation coding to this input image by dividing the input image into 2 x 2 block, 4x 4 block. Also compare the visual quality of 2 x 2 BTC with 4x 4.

84	78	62	66
76	80	82	84
60	62	66	64
72	71	65	66

**Ques 2 [2+1+4 = 7 Marks]** What do you meant by pseudo-colouring? For what purpose is it useful? Write the algorithmic steps for gamma correction of colour image? Perform the gamma correction of the image

2	4	6	8
3	5	7	9
4	6	8	10
12	14	15	13

Where the value of gamma to be 0.5. Also, discuss the effect the different value of gamma of the visual quality of the image.

**Ques 3 [3+4 = 7 Marks]** Compare and contrast Transmission Control Protocol (TCP) with Stream Control Transmission Protocol (SCTP) with suitable diagram? Further, discuss the flow control, error control and congestion control mechanism for SCTP.

**Ques 4 [2+2 = 4 Marks]** Write the short notes on following with suitable diagram/examples

- (a) Arithmetic compression technique
- (b) Interactive and non-interactive multimedia