Course Code: 18B1WCI532

Max Marks: 15

Course Name: Data Compression

Course Credits: 02

Max Time: 01:00 Hours

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

Q1. Write the difference between Golumb, Tunstall and Huffmann coding techniques? CO [1] (3)

Q2. Calculate the entropy if P (a) = 0.5, P (b) = 0.25, P(c) = 0.125, P (d) = 0.125? CO [1] (2)

Q3. What will be the binary representation using Huffmann Codes for message"Himchal Pradesh is the beautiful and peaceful state in india"? CO [2] (5)

Q4. Find the goloumb code for binary count N= 57,103, 17, 31, and M = 6? CO [2] (2)

Q5. What will be the decoded binary message for the encoded message using the run length encoding technique CO [2] (3)
"00001100001100000111001100011010101010011" for k= 3 bits?