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Give an equation of Kraitst Ranker equality and explain of the community of the commun

c) Write down Shanon's encoding algorithm.

- d) Write an algorithm for Shanon-fang-elias coding.
- e) Explain LZW compression algorithm with example.
- What is block code and write its properties.

SECTION-C

3 Attempt any two parts:

10×2=20

- Differentiate entropy and mutual information for continuous ensembles with suitable example.
- b) Explain discrete communication channels in detail.
- c) Write down channel capacity theorem.

SECTION-D

4 Attempt any two parts :

10×2=20

- Explain error correction and detection with examples.
- Write a note on standard arrays and table look up for encoding.
- c) What is an error? Give its types with example.

SECTION-E

5 Attempt any two parts

10×2=20

- a) What is burst error correcting code and convolution code?
- b) Explain the encoding using an (n-k) bit shift register.

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- c) Write short note on
 - i) BCH code
 - ii) GOLAY code.

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