Tucky Page No.:

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Khirola	CSOODST
Khushi N	P-1-1

DAA ISE Question 22/10/22.

## Let

total characters are 32

$$(P(q) = 1/2)$$

$$P(d) = 1/16$$

$$(P(e) = 1/32).$$

$$d = 0001$$

avg = total bits
unique charave

 $\frac{9\sqrt{9} - 1 \times 1 + 2 \times 1 + 3 \times 1 + 4 \times 1 + 4 \times 1}{2}$ 92.

1.75

avg. length of bits required for encoding each letter is 1.75