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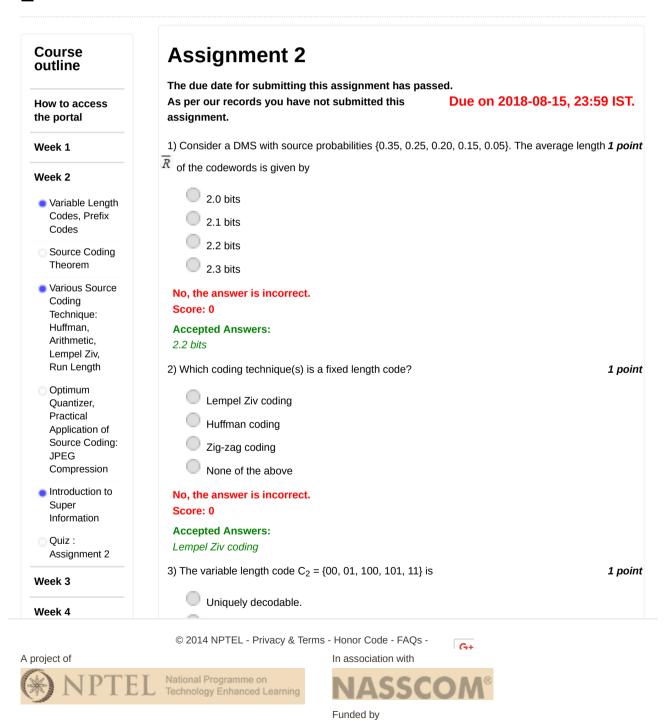
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Courses » Information Theory, Coding and Cryptography

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Unit 3 - Week 2



| Week 8 | Accepted Answers: Both a. and b |
|------------|--|
| Week 9 | 4) One possible Huffmann code for the DMS with source probabilities {0.35, 0.25, 0.20, 0.15, 1 point |
| Week 10 | 0.05} is |
| Wools 11 | {0, 1, 10, 110, 111}. |
| Week 11 | (00, 01, 10, 110, 111). |
| Week 12 | (00, 01, 10, 111, 1111). |
| Additional | (00, 11, 10, 101, 111). |
| Lectures | No, the answer is incorrect. Score: 0 |
| | Accepted Answers: |
| | {00, 01, 10, 110, 111}. |
| | 5) The efficiency η of the code for DMS with source probabilities {0.35, 0.25, 0.20, 0.15, 0.05} 1 point is |
| | 95.4% |
| | 96.5% |
| | 96.4% |
| | 94.6% |
| | No, the answer is incorrect. Score: 0 |
| | Accepted Answers: 96.4% |
| | 6) One possible Shannon-Fano-Elias code for the probability distribution {0.25, 0.25, 0.20, 1 <i>point</i> 0.15, 0.15} is |
| | (01, 11, 101, 110, 111) . |
| | {001, 011, 1001, 1100, 1110}. |
| | (011, 111, 1001, 1101, 1010). |
| | {101, 010, 1011, 1000, 1010}. |
| | No, the answer is incorrect. |
| | Score: 0 Accepted Answers: |
| | {001, 011, 1001, 1100, 1110}. |
| | 7) In a rainbow-colored urn, I have seven balls: 1 violet colored ball, 2 indigo colored balls, 3 1 point blue colored balls, 4 green colored balls, 5 yellow colored balls, 6 orange colored balls and 7 red colored balls. From this urn, I intend to pick up a ball at random and indicate the color of the ball using an efficient code. A ternary code for doing so would be |
| | {1, 2, 20, 01, 120, 021, 022}. |
| | (0, 1, 2, 00, 01, 02, 001). |
| | 1 , 2, 00, 01, 20, 21, 22}. |
| | {1, 2, 00, 01, 020, 021, 022}. |
| | No, the answer is incorrect. Score: 0 |
| | Accepted Answers: |
| | {1, 2, 00, 01, 020, 021, 022}. |