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| **Balochistan University of Engineering & Technology**  **Department of Electronics Engineering**  **BE Electronics**  **7th Semester Final Exam, 2023 (Spring)** | |
| **Subject Code :** EE-312 | **Subject :** Artificial Intelligence |
| **Max Marks : 50** | **Duration : 02 Hours** |
| **Instructor : Dr.Wazir Muhammad** | |

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| S.No | Question | Mks | PLO | CLO | Bloom |
|  | Apply the Kruskal's algorithm on Figure 1, to **find** the minimum cost of spanning tree.  Kruskal's Algorithm  Figure 1 | 15 | 2 | 1 | 2 |
|  | Define the termConvolution and Deconvolution Operation. **Calculate** the output of 2D convolution operation, having a Stride value is 2. | 15 | 3 | 3 | 5 |
|  | **State** and **Explain** the terms of Regularization, Underfitting, Overfitting, Good Fitting, and identify the below curve as shown in Figure 2, belong to Overfitting, Underfitting, and Good Fitting.  Figure 2 | 10 | 2 | 2 | 3 |
|  | Write short notes on the following with suitable example   1. Python 2. Difference between AI and XAI 3. Define Stride and Padding 4. Queue, LIFO, and FIFO 5. Maxpooling, Minpooling and Averagepooling operation. | 10 | 1 | 1 | 1 |

***THE END***