

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
Q.1.	Apply the Kruskal's algorithm on Figure 1, to find the minimum cost of spanning tree. B C T D Apply the Kruskal's algorithm on Figure 1, to find the minimum cost of spanning tree. Figure 1	15	2	1	2
Q.2.	Define the term Convolution and Deconvolution Operation. Calculate the output of 2D convolution operation, having a Stride value is 2. 2 3 7 4 6 2 9 6 6 9 8 7 4 3 3 4 8 3 8 9 7 7 8 3 6 6 3 4 4 2 1 8 3 4 6 3 2 4 1 9 8 3 0 1 3 9 2 1 4	15	3	3	5
Q.3.	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. Values Values Figure 2	10	2	2	3
Q.4.	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