

Cairo University Faculty of Computers and Artificial Intelligence Quiz-1 Model-2



Department: Information Technology				
Course Name: Pattern Recognition		Date: March 2023		
Course Code: IT 352		Duration: 25 Mints		
Instructor(s): Dr. Mona Soliman		Total Marks: 5 Marks		
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Having Four images, We extract three main features for each image, representing Color, shape, and weight

 $Fv1=(2,0,2)^T$

 $Fv2 = (2,3,0)^T$

 $Fv3 = (2,2,2)^T$

 $Fv4 = (2,3,0)^T$

(a) Get the corresponding Covariance matrix

(b) Determine the correlated and uncorrelated features.				