



Figure 1: Use this neural network to answer the problem below.

3) Using Figure 1, answer the following questions. Assume there are no bias terms contributing to the input nor any of the activations in each layer.

a. How many layers ( $L$ ) are there in this neural network? (2 point)

b. How many classes will this neural network classify? (2 point)

c. What are the dimensions of  $W^{(2)}$ ? (4 points)

d. State the equation for  $a_2^{(3)}$ . (4 points)

# Neural Network Exam Question Solution

**K Morrison**



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**Artificial Intelligence Research** Aurna Gerber, Jacques Maritz, Anban W. Pillay, 2024-12-01 This book constitutes the refereed proceedings of the 5th Southern African Conference on Artificial Intelligence Research SACAIR 2024 held in Bloemfontein South Africa during December 2 6 2024 The 29 full papers presented in these proceedings were carefully reviewed and selected from 101 submissions The papers are organized in the following topical sections algorithmic and Data Driven AI socio technical and human centred AI Information Systems responsible and Ethical AI Philosophy Law and Humanities symbolic AI and Knowledge Representation and Reasoning

**Computer Supported Cooperative Work and Social Computing** Yuqing Sun, Tun Lu, Zhengtao Yu, Hongfei Fan, Liping Gao, 2019-11-13 This book constitutes the refereed proceedings of the 14th CCF Conference on Computer Supported Cooperative Work and Social Computing ChineseCSCW 2019 held in Kunming China in August 2019 The 52 revised full papers and 10 short papers were carefully reviewed and selected from 169 submissions The papers of this volume are organized in topical sections on collaborative models approaches algorithms and systems social computing online communities crowdsourcing recommendation sentiment analysis etc AI for CSCW and social computing

*Selected Papers on Optical Neural Networks* Suganda Jutamulia, 1994

Data Mining with Neural Networks Joseph P. Bigus, 1996 readers will find concrete implementation strategies reinforced with real world business examples and a minimum of formulas and case studies drawn from a broad range of industries The book illustrates the popular data mining functions of classification clustering modeling and time series forecasting through examples developed using the IBM Neural Network Utility

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*Applications of Artificial Neural Networks III* Steven K. Rogers, 1992

Statistical Mechanics of Neural Networks Luis Garrido, 1990-12-12 Combined for researchers and graduate students the articles from the Sitges Summer School together form an excellent survey of the applications of neural network theory to statistical mechanics and computer science biophysics Various mathematical models are presented together with their interpretation especially those

to do with collective behaviour learning and storage capacity and dynamical stability      TIMS/ORSA Bulletin ,1992  
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