Answer any five questions

1. (a) Discuss how a Content Management System (CMS) can serve as the ideal platform for a knowledge management system. Support your argument with relevant examples.   [10]
   (b) Define software agents and outline their key characteristics, as perceived by scientists. Additionally, explain the essential differences that distinguish a software agent from an arbitrary program.   [10]

2. (a) Discuss the various advantages and disadvantages of utilizing open-source software for content management purposes, with a focus on potential benefits and challenges.   [10]
   (b) Describe the key differences between Enterprise Content Management System, Document Management System, and Digital Asset Management System.   [10]

3. (a) "A portal is a one-stop shop" - elaborate on this statement and discuss its significance in providing information and services to users.   [10]
   (b) Define mashup and explore the fundamental differences between portal and mashup technologies, highlighting their unique characteristics and applications.   [10]

4. (a) Present your recommendations for using CMS software to create an institutional website and justify your suggestions.   [10]
   (b) Explain the roles of metadata in content management, emphasizing their significance in organizing and retrieving content effectively.   [10]

5. (a) Describe Drupal and elucidate its key objectives and features as a Content Management System.   [10]
   (b) Describe the directory structure of Drupal 10 and explain the reasons for installing third-party modules and themes in specific folders within Drupal.   [10]

6. Answer any two: [2 x 10 = 20]
   (a) Write a short note on the RSS feed
   (b) Discuss the purpose and significance of the Multi-agent system
   c (b) Analyze the significance of Community Information Services (CIS) in todays' world.