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RIA

Daffodil International University
Faculty of Science & Information Technology
Department of Software Engineering
Final Examination, Summer 2026
Course Code: SE 212; Course Title: Software Requirement Specifications & Analysis
Sections & Teachers: A,B,C(JK), D(NML), E,F(KBB),G(MSS)

Time: 2:00 Hrs **Marks: 40**

Answer ALL Questions

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

		Due to the increasing number of natural disasters such as floods, wildfires, and extreme weather events around the world, governments and organizations are adopting AI-powered emergency management systems. **RescueNet** is a smart emergency response mobile application designed to assist citizens during emergency situations.After launching the application, users can register using their phone number and current location. The home dashboard provides real-time disaster alerts, emergency contacts, nearby shelters, and safety guidelines. The system collects real-time weather information and uses AI-based prediction models to generate early warnings for possible disasters such as floods, storms, or other environmental hazards. During an emergency, users can activate the **"SOS Emergency Request"** feature to send their live location, emergency category, and personal information to nearby rescue teams. The system automatically identifies the nearest available rescue center and forwards the emergency request. If network connectivity is unavailable, the application temporarily stores the request and automatically synchronizes it once the connection is restored.The system allows users to upload images or videos of affected areas. An AI-based damage assessment module analyzes the uploaded media to estimate the severity of the situation and helps authorities prioritize rescue operations. Users can also access real-time information about affected locations, available shelters, and relief distribution centers.To ensure data privacy and security, users can control location-sharing permissions and decide whether their emergency history should be		