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CSH 201

II Semester M.Sc. Examination, Sept./Oct. 2022 COMPUTER SCIENCE Internet of Things

Time: 3 Hours Max. Marks: 70 **Note**: Answer **any five** questions. 1. a) Why do IOT systems have to be self adapting and self-configuring? 6 b) What are the different communication models of IOT? Explain them 8 briefly. 2. a) Discuss the designing of smart street lighting in smart cities. 7 b) Explain big data analytics and cloud computing. 7 3. a) What is M2M? Explain briefly about the various applications of M2M. 7 7 b) Define NFV. Briefly explain the layers of NFV. 4. a) Explain the components involved in managing a network device with SNMP. 7 b) Discuss in detail about NETOPEER. 7 7 5. a) Explain the features of python programming language. b) Compare and contrast between python list and tuple with suitable code examples. 7 6. a) What is the use of SPI and I2C interfaces on Raspberry Pi? Explain. 7 b) Write a Python program to turn on and turn off an LED for every two seconds on Raspberry Pi board. 7 7. a) Define WAMP. Explain the key components of WAMP. 8 b) Explain the procedure to use Xively. 6 8. a) Explain in detail about Django. 8 b) Write a short note about following: 6 i) XML ii) JSON